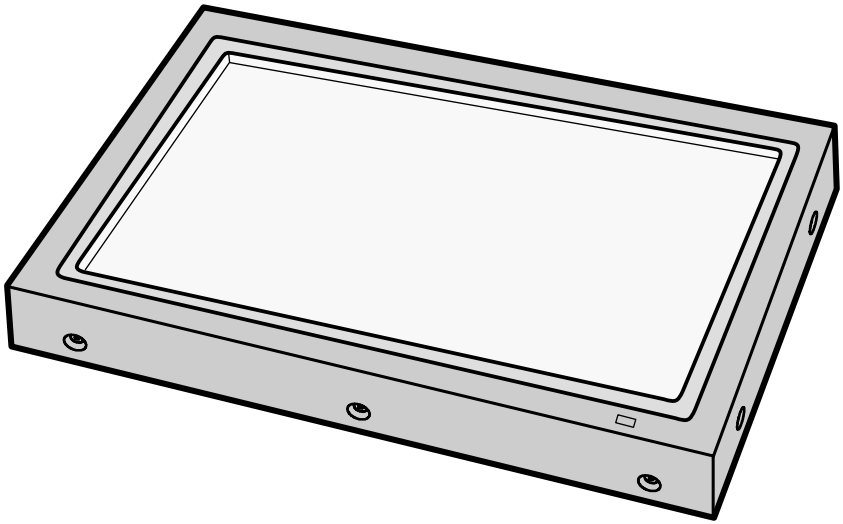
MODEL **38-FP0001-01** **(with Video Card)**
38-FP0001-02 **(without Video Card)**

User's Manual



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Precautions

Important matters

- Plug the included AC Power Cord to the power supply and voltage as mentioned in the rating label. IF NOT, DAMAGE TO THE AC POWER CORD IS A SAFETY RISK AND CAN CAUSE A FIRE.

Placement precautions

- Avoid placing the unit in humid or dusty places, or where it will be exposed to excessive heat (direct sunlight, heaters, etc.)
- Do not step on or set anything on the AC Power Cord. DAMAGE TO THE AC POWER CORD IS A SAFETY RISK AND CAN CAUSE A FIRE.
- Install the unit only on a stable and smooth surface.
- Do not connect the unit to the same AC outlet with appliances that generate large amounts of interference (such as heaters with thermostats, appliances with motors, etc.). It is best to use a completely separate electrical outlet.
- Keep the unit away from water or small objects. If they accidentally enters the unit, unplug the AC power cord immediately. DO NOT PLUG IN THE UNIT AGAIN.
- Never cover the rear ventilators with cloth or something.

Handling precautions

- "**WARNING**: The AC power cord and cables on this product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. ***Wash hands after handling.***"
- Avoid bending, kinking or damaging the AC Power Cord.
- Never insert or remove the power cord with wet hands. Also, be sure to hold cord by the plug when removing it from the outlet.
- Do not remove any parts that are held in place with screws. (The unit does not contain any user-serviceable items.)
- Maintain standard room temperature (5˚C to 35˚C, or 41˚F to 95˚F) during use. Do not subject the unit to shock or vibration. Do not move the unit while it is in use.
- A rapid increase in room temperature in cool weather can cause condensation to form inside the unit. If this occurs, wait at least 15 minutes after turning the unit on before attempting to operate it.
- Do not attempt to service this monitor yourself as opening unit may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

c UL us LISTED

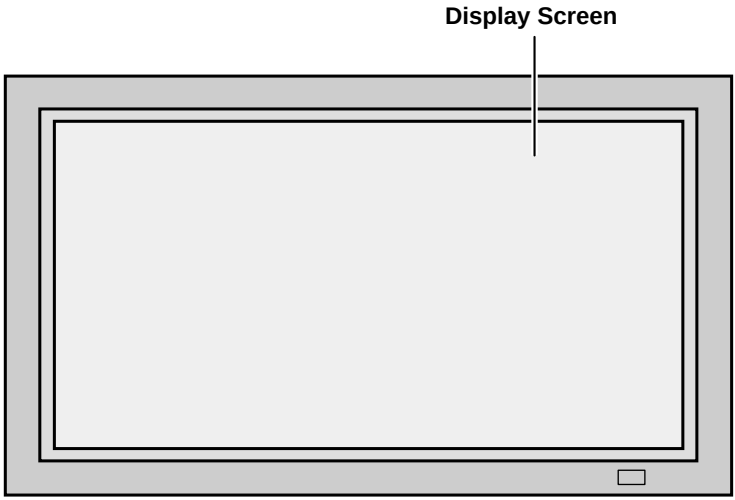
This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

CE

The CE Mark is a Directive conformity mark of the European Community (EC).

Names and Functions (Monitor)

Front View



NOTE

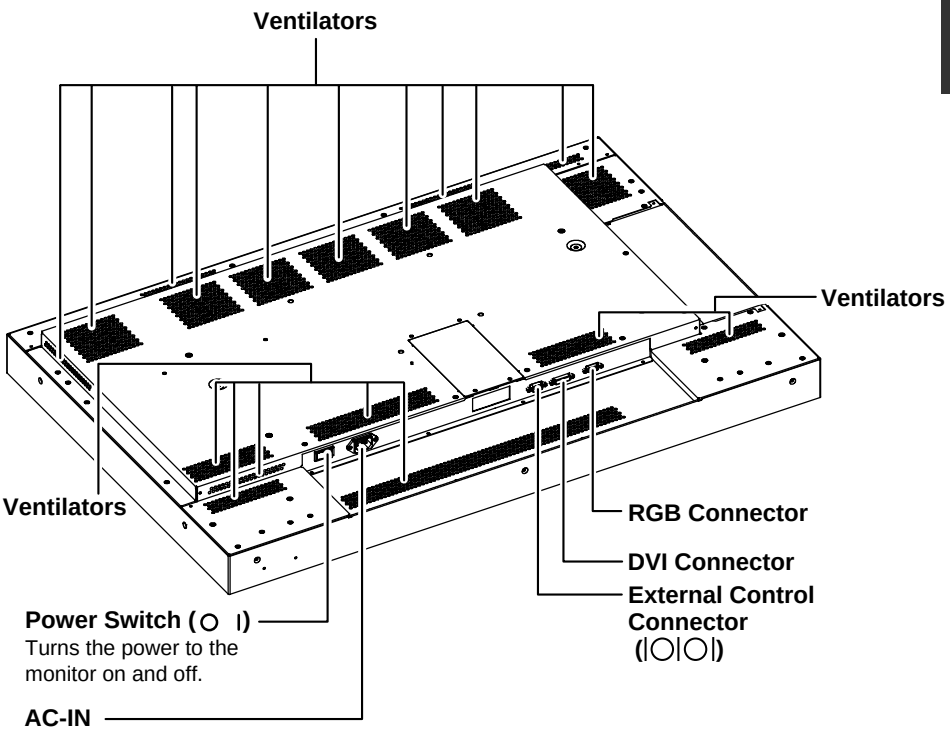
- When you move the LCD monitor, please unplug AC cables connected to AC-IN and disconnect the cables connected to the external equipment.
- When you carry the LCD monitor, please be careful not to shock it. To avoid damaging the LCD panel, be sure not to touch the LCD panel when carrying the monitor.

Check Accessories

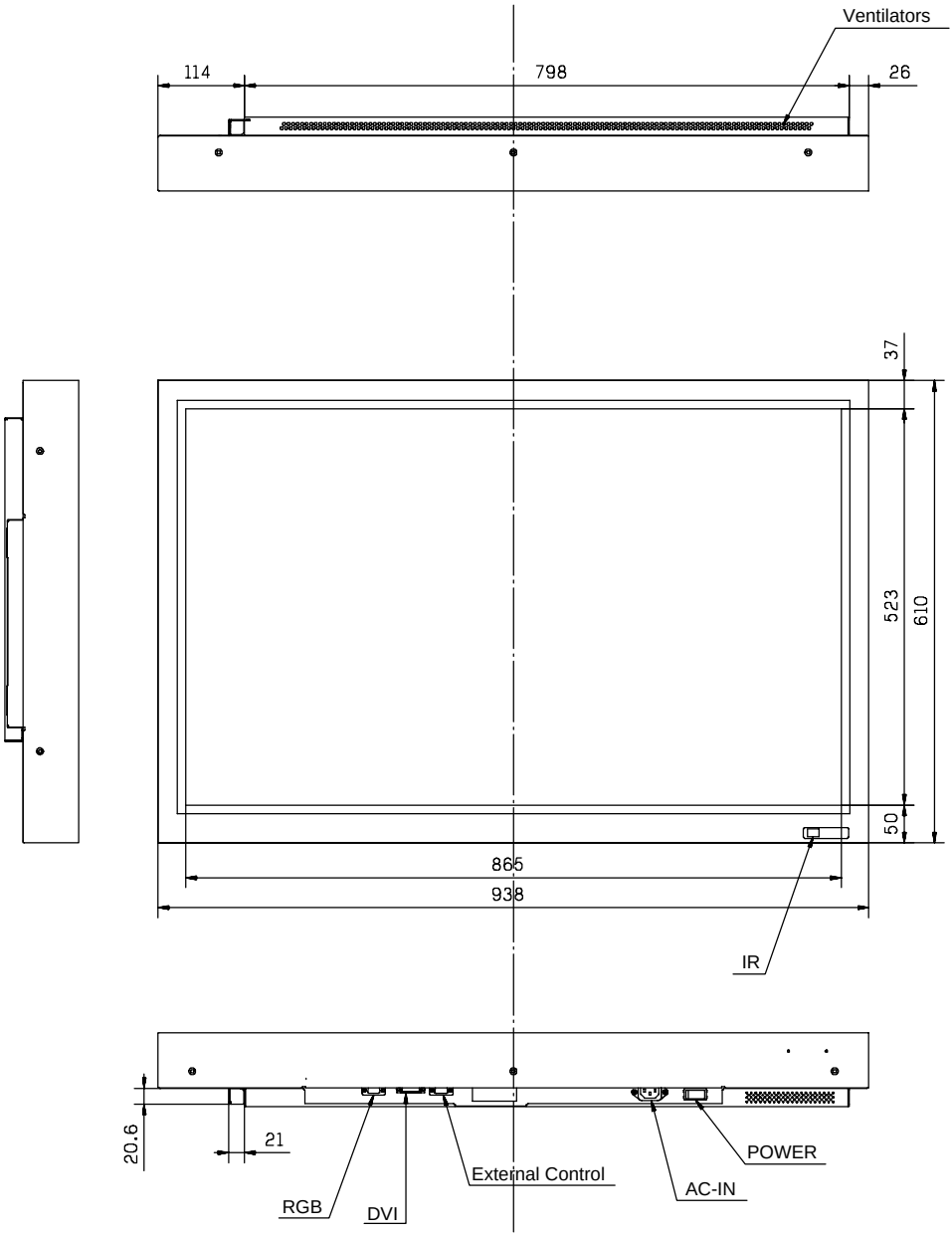
Check that the main unit and all accessories are present.

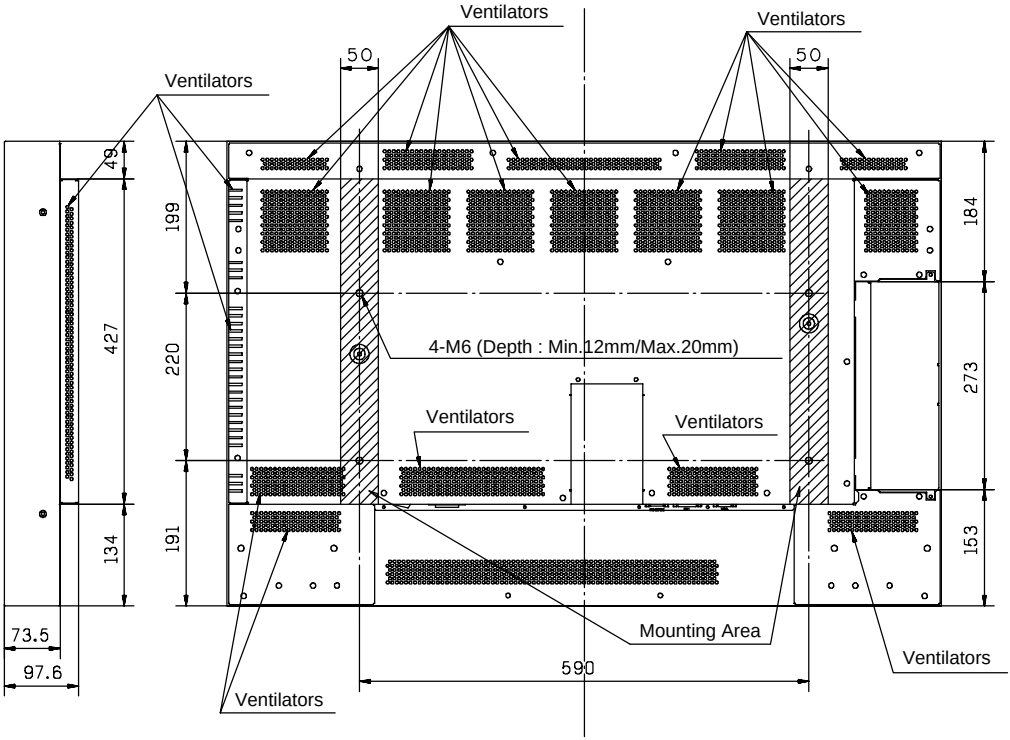
- **AC Power Cord (x 1)**
- **AA Batteries (x 2)**
- **User's Manual (x 1)**
- **Remote Controller (x 1)**
- **RGB Cable (x 1)**

Rear View


Ventilators
Ventilators
Ventilators
RGB Connector
DVI Connector
External Control Connector
Power Switch (○ |)
Turns the power to the monitor on and off.
AC-IN

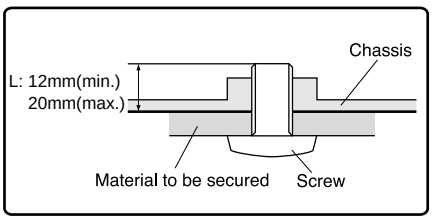
Outer Dimension





When you install the LCD Monitor, please take care the following:

- Use the M6 screws only for installation.
- The maximum length of the screw put through a hole is 20mm on the surface of a metal chassis (as shown right). Use the screw with effective length 12-20mm, if not it may damage to the LCD monitor.
- When you install the LCD monitor, please check the strength of material to be secured.



Installation

Connect the Computers

Before doing anything, make sure the Power Switch on the monitor and a computer is turned off.

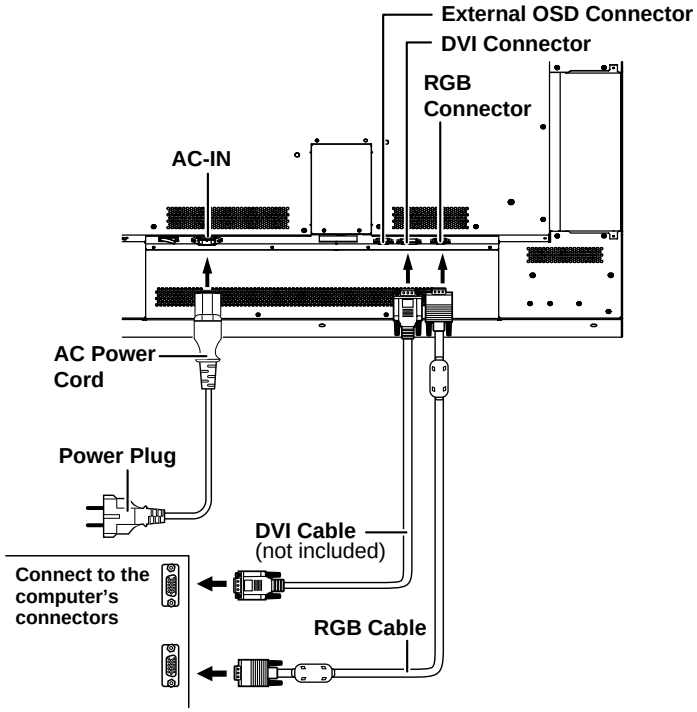
1 **Plug the cable(s) into the connector on the monitor securely and fix them in place with two screws (each).**

2 **Plug the other end of the cable(s) into the connector on a computer.**

3 **Plug the AC Power Cord into the AC-IN on the monitor.**

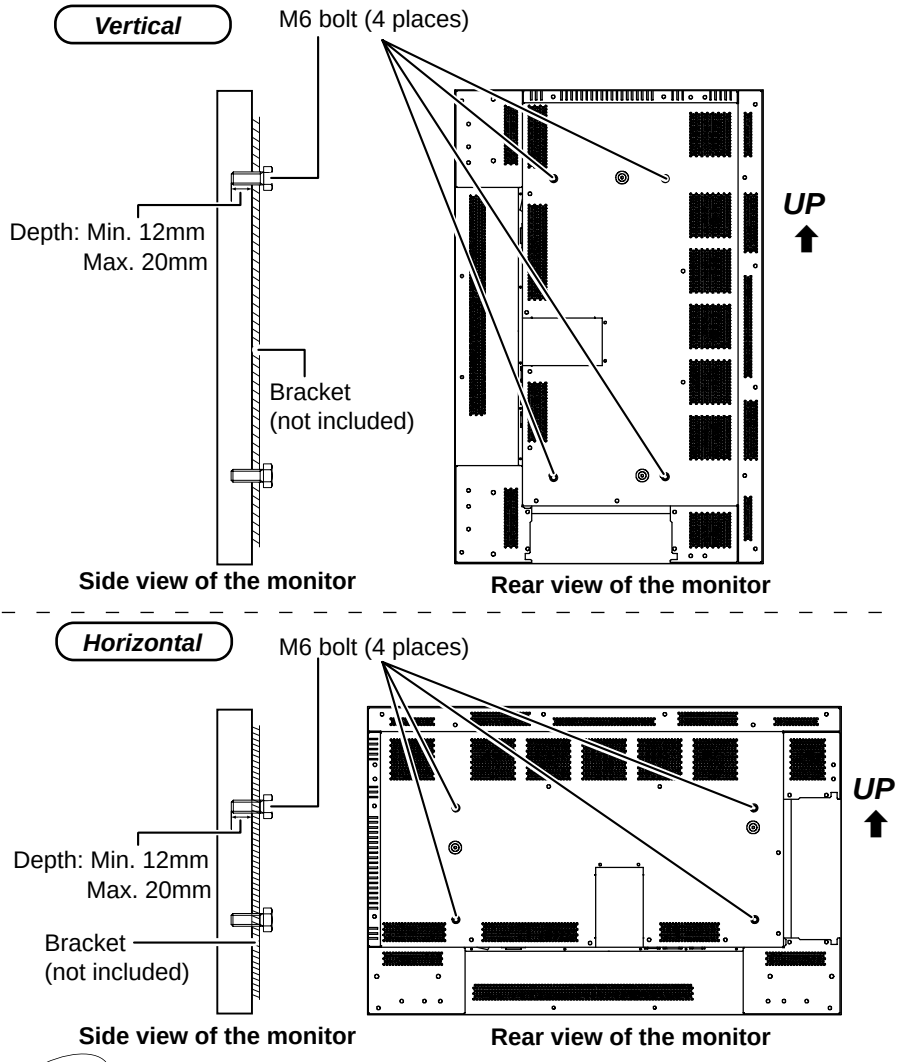
4 **Plug the Power Plug into an outlet.**

5 **Switch on the monitor before starting up a computer.**



How to secure the monitor on a wall

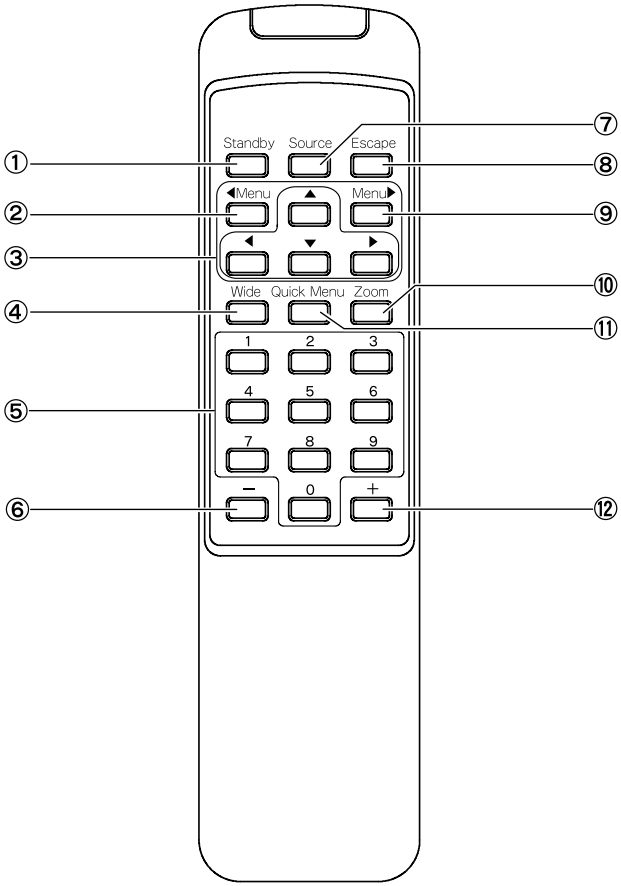
Note: The following figure is only recommended.



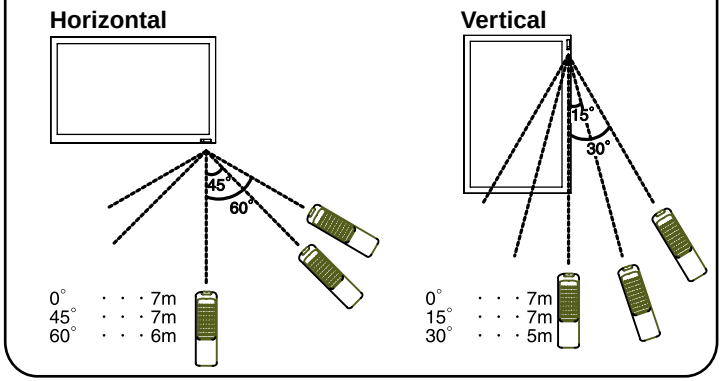
Caution

Never cover the rear ventilators with cloth or something.
Secure enough space more than 30mm from the rear part of the monitor.

Names and Functions (Remote Controller)



Operating Range (when there is no obstacle)



①Standby key

Standby ON/OFF.

②◀Menu key

Show Main menu. Used to move cursor leftward while displaying the menu.

③Wide key

Set the scale mode in wide.

④Numeric keys (see page 72)

Used to switch each input signal. [0], [8] and [9] keys are not used.

[1] Analog RGB1 selection [2] Digital RGB selection [3] Composite VIDEO selection

[4] S-Video selection [5] Analog RGB2 selection [6] Component VIDEO selection

[7] RGB+CSync selection

⑤－key (see page 72)

Zoom out the picture.

⑥Source key

Search and switch to current input signal automatically.

⑦Escape key

Escape from menu.

⑧▶Menu key

Show Main menu. Used to move cursor rightward while displaying the menu.

⑨Direction keys

▲key･･･Select upper items in the menu.

▼key･･･Select lower items in the menu.

◀key･･･Change set level down or move the cursor leftward.

▶key･･･Change set level up or move the cursor rightward.

⑩Zoom key (see page 72)

Display Zoom menu.

⑪Quick Menu key (see page 70,71)

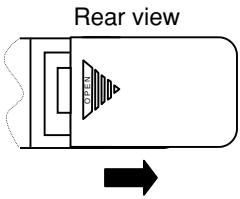
Display Quick menu.

⑫＋key (see page 72)

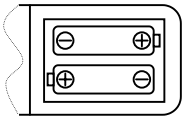
Zoom in the picture.

Preparation for remote control

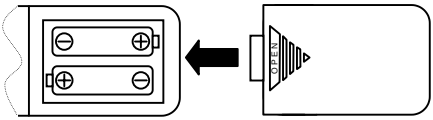
1 **Remove the battery compartment lid with pushing OPEN .**



2 **Be sure and put two AA dry batteries into the remote controller. Make sure of the direction of them as indicated inside the remote controller.**



3 **Replace the lid by sliding it up over the batteries until it is firmly in place.**



Adjusting the Screen

This LCD monitor decodes the signal from a computer automatically, and displays the image on a screen in accordance with the preset mode. Unless a display mode has been in preset table, the image is displayed under the similar mode in preset table. In this case, the adjustment for this LCD monitor must be done in accordance with a computer connected with. Please follow the **OSD (On Screen Display)** menu to adjust screen settings.

Adjustment Items for computer screen

Picture Menu (refer to page 18-21)

BRIGHTNESS	**Adjust the brightness for the screen**
CONTRAST	**Adjust the contrast for the screen**
H POSITION	**Adjust the horizontal position for the screen**
V POSITION	**Adjust the vertical position for the screen**
PHASE	**Adjust the phase for the screen**
FREQUENCY	**Adjust the horizontal width for the screen**
SCALING	**Scale the screen**

Note
H position, v position, phase and frequency for the screen can be adjusted in Analog mode only.

Advanced Menu (refer to page 22-23)

COLOR	**Adjust the color temperature for the screen**
USER RED	**Adjust the level of red for the screen**
USER GREEN	**Adjust the level of green for the screen**
USER BLUE	**Adjust the level of blue for the screen**

Pip(picture in picture) Menu (refer to page 24-28)

SIZE	**Select the size of pip**
POSITION	**Select the position of pip**
SOURCE	**Change the input signal**
BRIGHTNESS	**Adjust the brightness of pip**
CONTRAST	**Adjust the contrast of pip**
COLOR	**Adjust the color of pip**
TINT	**Adjust the tint of pip**
SHARPNESS	**Adjust the sharpness of pip**

Note
BRIGHTNESS, CONTRAST, COLOR, TINT and SHARPNESS for pip can be adjusted when inputting Composite Video or S-Video signal and also selecting [small] or [medium] or [large] in [size] menu.

Adjustment Items

Adv pip(Advanced picture in picture) Menu (refer to page 29-30)

H POSITION	**Select the horizontal position of pip**
V POSITION	**Select the vertical position of pip**
VIDEO FORMAT	**Select the video format (ntsc/pal/secam)**

Note
Adv pip Menu can be used when inputting Composite Video or S-Video signal and also selecting [small] or [medium] or [large] in [size] menu.

Options Menu (refer to page 31-33)

OSD	**Select the osd position**
ROTATION	**Select PORTRAIT or LANDSCAPE**
OSD TIMEOUT	**Change the osd timeout**
OSD BACKGROUND	**Select the osd background**
LANGUAGE	**Select language used in osd**
BACKLIGHT	**Adjust the backlight of the screen**

Utilities Menu (refer to page 34-35)

AUTO ADJUST	**Adjust the screen automatically**
RESET	**Delete the data saved at the current display mode**
INTERNAL FIRMWARE	**Display the osd version**
RESOLUTION	**Display the resolution of the screen**

Note
If selected [Rotated] in Options menu, [Internal Farmware] is not displayed.

Mode

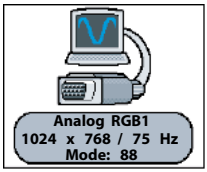
You can change or indicate the signal input type following the steps.

Change or indicate the input signal

1. While the OSD (On Screen Display) is not displayed, it is possible to change or indicate the current mode.

Press [Source] key to indicate the current mode in the lower right corner of the screen.

(Ex.)

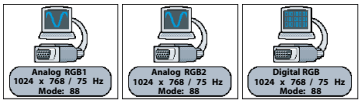


2. While displaying the current mode, press [Source] key again.

Start searching another mode according to the order [Analog RGB1] → [Analog RGB2] → [Digital RGB].

[Analog RGB1] → Switch to the signal from RGB connector.
[Analog RGB2] → Switch to the signal from R/G/B/HD/VD connector.
[Digital RGB] → Switch to the signal from DVI connector.

- Every time the input signal is searched, display the searched and stop searching picture.
- The current mode is indicated for each input signal type as follows:



NOTE

In case there is no signal when the screen is on, the screen will be in the waiting mode and nothing is shown.

Adjustment Procedure

Before Adjustment

The signal timing for a computer which this LCD monitor supports is listed in "Table of Preset Data" on Page 39, the recommended value of Vertical Frequency for this model is 60Hz. (Unlike CRT Monitors, the display becomes stable when Vertical Frequency is low.) It is recommend to set Vertical Frequency of a computer connected at 60Hz by "refresh rate setting" before starting adjustment procedure.

*This user's guide illustrates the OSD(On Screen Display) when installing this LCD monitor in the standard direction. If selects the "Rotated" in Options menu (see page 31), OSD menu is displayed in the opposite order.

This monitor does not have the convertible function of Landscape display. When using this monitor with vertical installation, it is necessary to adapt the input signal to this monitor to the Portrait display.

1 Display the Windows or other screen

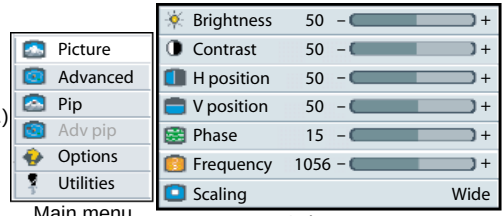
After a computer is connected with this LCD monitor, activate a computer and then shows a bright screen on this LCD monitor. It might not be possible to adjust the screen correctly for a dark screen.

> For DOS mode, run an application that shows the edges of the screen (edit etc.) to adjust screen.

2 Show OSD (On Screen Display) menu

Press [◀Menu] or [Menu▶] key to show the following menu while no menu is displayed on the monitor.

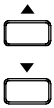
(Ex.)



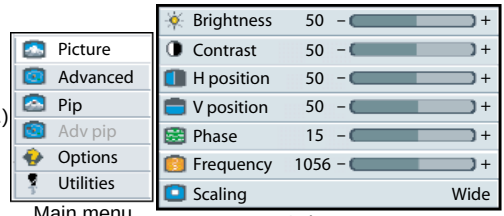
Main menu Sub menu

3 Select item of the menu

Press [▲] or [▼] key to select item of the menu while displaying the OSD menu.



(Ex.)



Main menu Sub menu

4 Move the cursor to Sub menu

After Main menu item is selected, press [Menu ▶] key.

・Press [◀ Menu] key to return to Main menu from Sub menu.

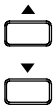
(Ex.)

Main menu

Sub menu

5 Select item of Sub menu

Press [▲] or [▼] key as well as the Main menu item selection.



(Ex.)

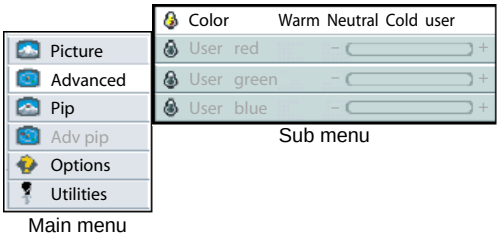
Main menu

Sub menu

6 Match the cursor to the operation item

1. When there are some selections like "color" item, press [◀] or [▶] key to move the cursor to switch.

(Ex.)



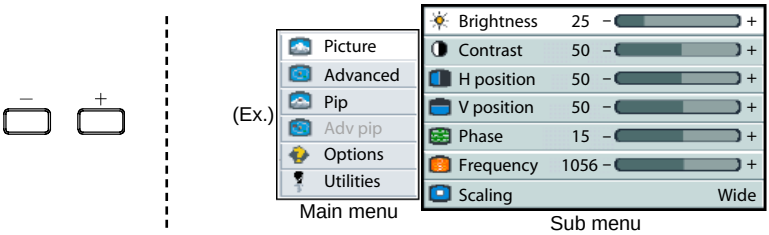
Main menu

Sub menu

*Continued on the following page.

Adjustment Procedure

2. For the adjustment item like "brightness", press [−] or [+] key to change levels of selected item.



7 Adjustment or Setting

For each item selected, the adjustment/setting has been made by pressing [◀] and/or [▶] key. This monitor saves adjusted value at intervals of about 5 seconds. Do not turn off the monitor for at least 5 seconds after adjustment or setting. (The detail steps for each item are described in the page 18-35)

(Picture Menu)

Manual Adjustment

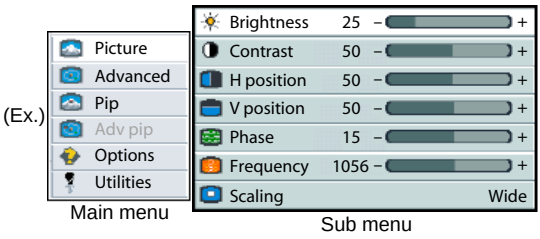
If you wish to adjust the screen finely or in case the result adjusted by Auto Adjust (see page 34) sequence is not sufficient enough, adjust the screen manually.

A. Picture Menu

1 Adjust the brightness

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Brightness] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Brightness] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

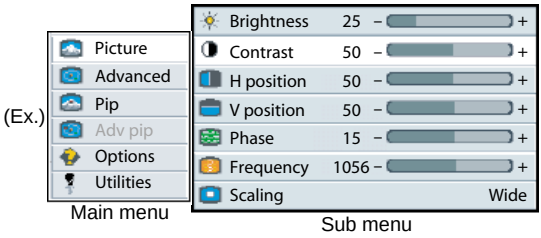
By pressing [▶] key, the whole screen is brighter.

By pressing [◀] key, the whole screen is darker.

2 Adjust the contrast

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Contrast] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Contrast] turns blue.

*Continued on the following page.

Adjustment Procedure (Picture Menu)

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the contrast (difference between bright and dark) becomes darker.

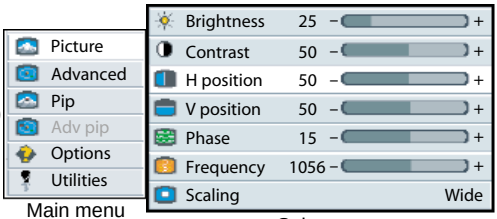
By pressing [◀] key, the contrast (difference between bright and dark) becomes lighter.

3 Adjust the horizontal position (Analog mode only)

1. Select [Picture] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [H position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [H position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

Press [▶] to shift the screen to the right.

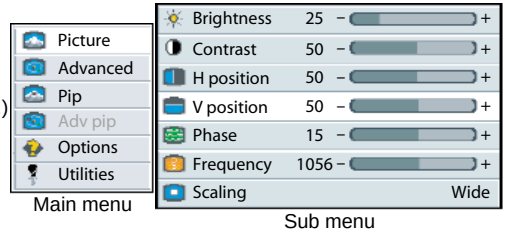
Press [◀] to shift the screen to the left.

4 Adjust the vertical position (Analog mode only)

1. Select [Picture] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [V position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [V position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

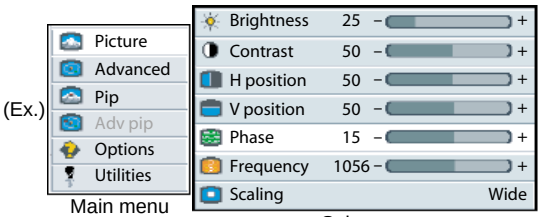
Press [▶] key to shift the screen to the top.

Press [◀] key to shift the screen to the bottom.

5 Adjust the phase (Analog mode only)

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Phase] on the Sub menu with pressing [▲] or [▼] key.

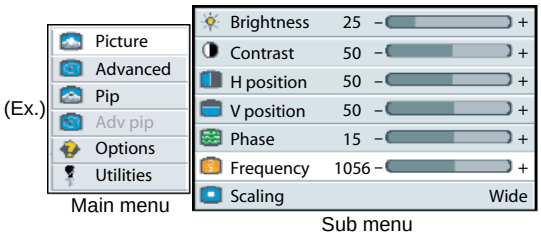
The selected item of [Phase] turns blue.

3. Use [▶] and/or [◀] key to be able to display the small characters clearly. (Interval: 0~31)

6 Adjust the frequency (Analog mode only)

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Frequency] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Frequency] turns blue.

*Continued on the following page.

Adjustment Procedure (Picture Menu)

3. Use [▶] and/or [◀] key to adjust.

By pressing [▶] key, the horizontal width becomes wider.

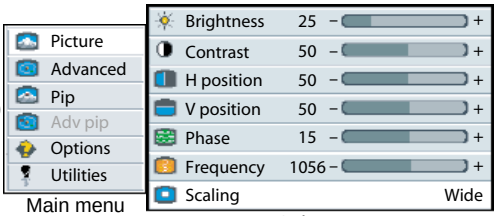
By pressing [◀] key, the horizontal width becomes narrower.

7 Adjust the scaling

1. Select [Picture] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu

Sub menu

2. Select [Scaling] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Scaling] turns blue.

3. Use [▶] and/or [◀] key to adjust.

When pressing [▶] key, the scaling can be selected according to the order [Wide] → [Normal] → [1:1] → [Wide] in sequence.

When pressing [◀] key, the scaling order is scrolled in opposite to the above order.

[Wide]	→	Display the input picture to the full wide.
[Normal]	→	Display the input picture with keeping an aspect ratio on the whole screen.
[1:1]	→	Display the input picture with the aspect ratio 1:1.

The screen varies due to the selected resolution settings of connected PC system.

B. Advanced Menu

You can adjust the color temperature for the screen manually. Three preset values of color temperature are set up at the time of factory shipments. Besides, you can set your preferable values.

1 Adjust the color temperature (Preset)

1. Select [Advanced] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Use [▶] and/or [◀] key to adjust.

<Preset value>		<Screen condition>
Warm	→	a little reddish white
Neutral	→	natural light
Cold	→	a little bluish white

When pressing [▶] key, the color temperature can be selected to the order [Neutral] → [Cold] → [user] → [Warm] → [Neutral] in sequence.
When pressing [◀] key, the color temperature order is scrolled in opposite to the above order.

- If [user] is selected, three colors adjustment menu to adjust [User red] or [User green] or [User blue] are available (see following step **2**).

2 Adjust the color (User)

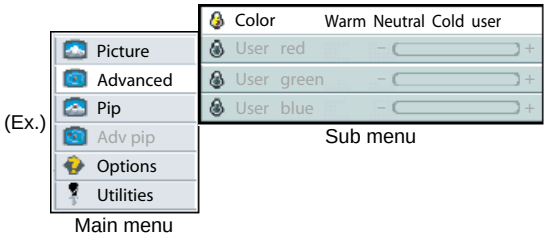
If you wish to set user setting of color, follow the steps.

(Ex.) In case adjusting the [User red], [User green] and [User blue] in sequence.

1. Select [Advanced] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

Adjustment Procedure (Advanced Menu)



2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Select [User] with [▶] and/or [◀] key.

[user] turns red. Besides, [User red], [User green] and [User blue] are displayed.

4. Select [User red] with [▼] key.

The selected item of [User red] turns blue.

5. Adjust the red level with [▶] and/or [◀] key. (Interval: 0~100)

6. Press [▼] key.

You can see the cursor moving to [User green]. The selected item of [User green] turns blue.

7. Adjust the green level with [▶] and/or [◀] key. (Interval: 0~100) And then press [▼] key.

You can see the cursor moving to [User blue].

The selected item of [User blue] turns blue.

8. Adjust the blue level with [▶] and/or [◀] key. (Interval: 0~100)

	pressing [▶] key	pressing [◀] key
User red	more reddish	less reddish
User green	more greenish	less greenish
User blue	more bluish	less bluish

(Pip Menu)

C. Picture in picture Menu

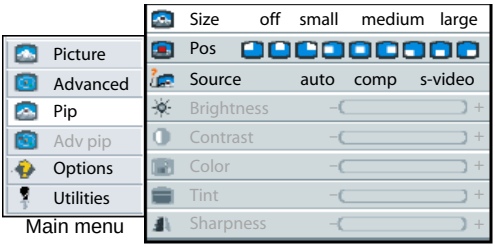
If you wish to adjust a pip(picture in picture), you can adjust the size, position, source, brightness, contrast, color, tint and sharpness manually.

1 Adjust the size

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



2. Select [Size] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Size] turns blue.

3. Use [▶] and/or [◀] key to select the size.

When pressing [▶] key, the size of pip can be selected according to the order [off] → [small] → [medium] → [large] → [off] in sequence.

When pressing [◀] key, the size of pip order is scrolled in opposite to the above order.

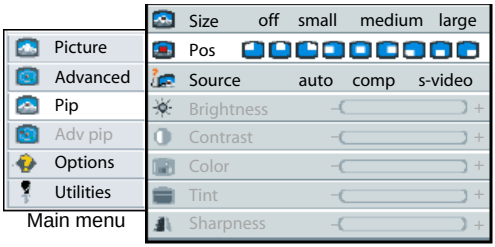
• When [off] is selected, [Pip] menu and pip disappear. In case selecting [small] or [medium] or [large], [Pip] menu appears.

2 Select the position

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Adjustment Procedure (Pip Menu)

2. Select [Pos] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Pos] turns blue.

3. Use [▶] and/or [◀] key to select the position.

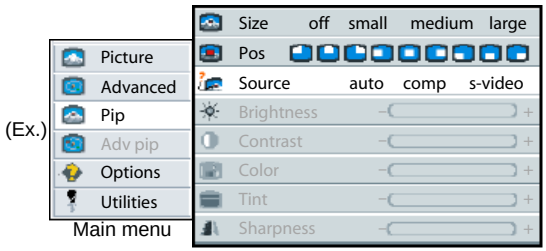
When pressing [▶] key, the position of pip(picture in picture) can be selected according to the order → → → → → → → → → in sequence.

When pressing [◀] key, the position of pip order is scrolled in opposite to the above order.

3 Change the input signal

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Source] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Source] turns blue.

3. Use [▶] and/or [◀] key on to adjust.

When pressing [▶] key, the source of the input signal type on pip can be selected according to the order [auto] → [comp] → [s-video] → [auto] in sequence.

When pressing [◀] key, the source of the input signal type on pip order is scrolled in opposite to the above order.

[auto] → Search and switch to the input signal automatically.

[comp] → Switch to the composite signal.

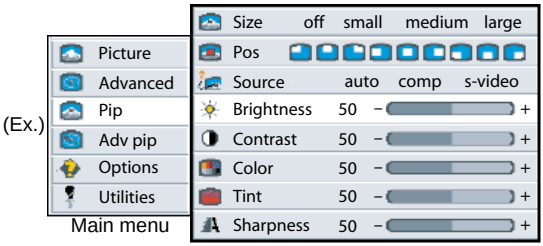
[s-video] → Switch to the s-video signal.

4 Adjust the brightness (Video signal only)

You can adjust this item when selecting [small] or [medium] or [large] in [Size] menu (see page 24).

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Brightness] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Brightness] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the whole screen becomes brighter.

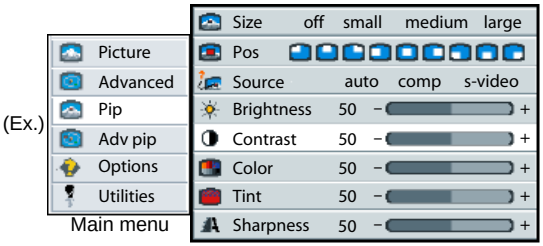
By pressing [◀] key, the whole screen becomes darker.

5 Adjust the contrast (Video signal only)

You can adjust this item when selecting [small] or [medium] or [large] in [Size] menu (see page 24).

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Contrast] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Contrast] turns blue.

*Continued on the following page.

Adjustment Procedure (Pip Menu)

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the contrast (difference between bright and dark) becomes darker.

By pressing [◀] key, the contrast (difference between bright and dark) becomes lighter.

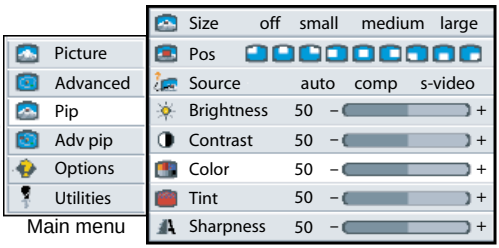
6 Adjust the color (Video signal only)

You can adjust this item when selecting [small] or [medium] or [large] in [Size] menu (see page 24).

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the screen deepens.

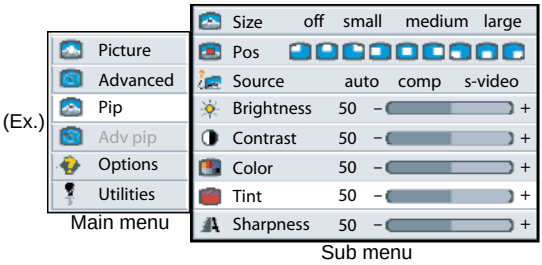
By pressing [◀] key, the screen lightens.

7 Adjust the tint (NTSC signal only)

You can adjust this item when selecting [small] or [medium] or [large] in [Size] menu (see page 24).

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Tint] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Tint] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the skin color turns more greenish.

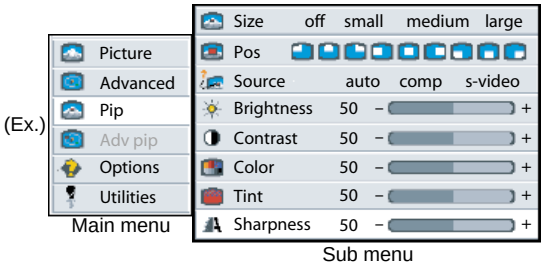
By pressing [◀] key, the skin color becomes more purplish.

8 Adjust the sharpness (Video signal only)

You can adjust this item when selecting [small] or [medium] or [large] in [Size] menu (see page 24).

1. Select [Pip] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Sharpness] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Sharpness] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the outline of the picture becomes clearly.

By pressing [◀] key, the outline of the picture softens.

Adjustment Procedure (Advanced Pip Menu)

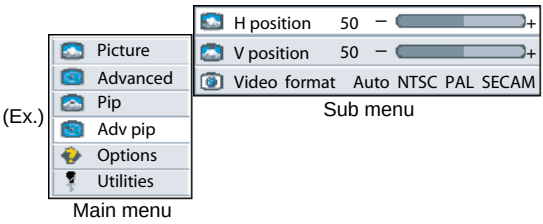
D. Advanced picture in picture Menu

This menu can be used when inputting Composite Video or S-Video signal and also selecting [small] or [medium] or [large] in [Size] menu (see page 24).
You can adjust the horizontal/vertical position for pip and select the video format if you select this menu.

1 Adjust the horizontal position

1. Select [Adv pip] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [H position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [H position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

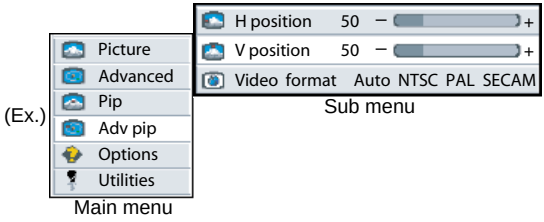
Press [▶] key to shift the screen to the right.

Press [◀] key to shift the screen to the left.

2 Adjust the vertical position

1. Select [Adv pip] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [V position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [V position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

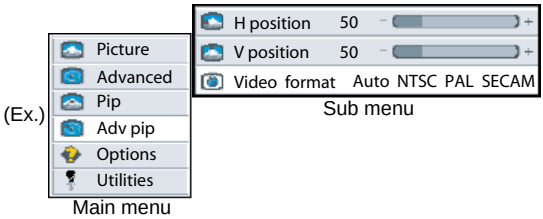
Press [▶] key to shift the screen to the bottom.

Press [◀] key to shift the screen to the top.

3 Select the video format

1. Select [Adv pip] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Video format] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Video format] turns blue.

3. Use [▶] and/or [◀] key to select the video format.

When pressing [▶] key, the video format can be selected according to the order [Auto] → [NTSC] → [PAL] → [SECAM] → [Auto] in sequence.

When pressing [◀] key, the video format order is scrolled in opposite to the above order.

[Auto]	→	Search and switch to the input signal automatically.
[NTSC]	→	Switch to the NTSC signal.
[PAL]	→	Switch to the PAL signal.
[SECAM]	→	Switch to the SECAM signal.

Adjustment Procedure (Options Menu)

E. Options Menu

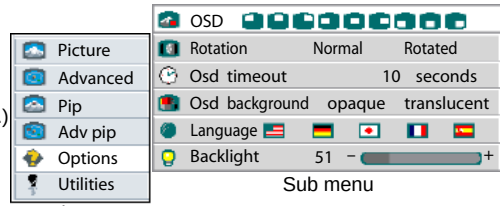
You can change the osd position, osd timeout, osd background and backlight and select portrait or landscape, language used in osd and see the resolution at the time if you select this menu.

1 Select the osd position

1. Select [Options] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu　　Sub menu

2. Select [Osd] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd] turns blue.

3. Use [▶] and/or [◀] key to select the position.

When pressing [▶] key, the position of pip(picture in picture) can be selected according to the order → → → → → → → → in sequence.

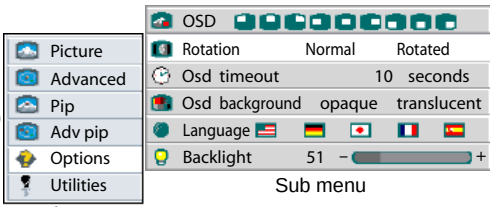
When pressing [◀] key, the position of pip order is scrolled in opposite to the above order.

2 Select PORTRAIT or LANDSCAPE

1. Select [Options] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu　　Sub menu

2. Select [Rotation] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Rotation] turns blue.

3. Use the [▶] and/or [◀] key to select [Normal] or [Rotated].

Select "Normal" to display LANDSCAPE.

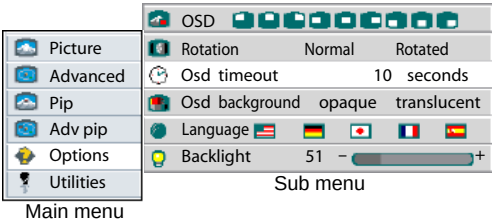
Select "Rotated" to display PORTRAIT.

3 Change the osd timeout

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu

Sub menu

2. Select [Osd timeout] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd timeout] turns blue.

3. Use the [▶] and/or [◀] key to adjust. (Interval: 5~60)

Press the [▶] key to set the osd timeout longer.

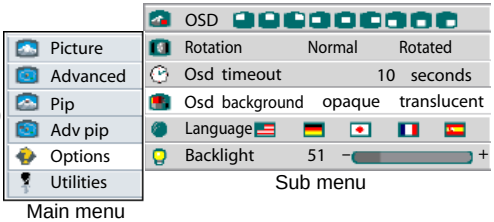
Press the [◀] key to set the osd timeout shorter.

4 Change the osd background

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu

Sub menu

2. Select [Osd background] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd background] turns blue.

3. Use the [▶] and/or [◀] key to select [opaque] or [translucent].

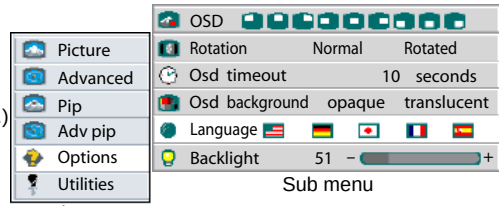
Adjustment Procedure (Options Menu)

5 Select language used in OSD (On Screen Display)

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu　　Sub menu

2. Select [Language] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Language] turns blue.

3. Use the [▶] and/or [◀] key to select the language.

When pressing the [▶] key, the language can be selected according to the order [English] → [German] → [Japanese] → [French] → [Spanish] → [English] in sequence.

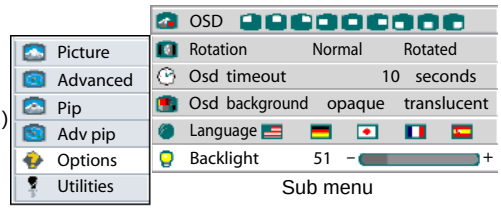
When pressing the [◀] key, the language is scrolled in opposite to the above order.

6 Adjust the backlight

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu　　Sub menu

2. Select [Backlight] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Backlight] turns blue.

3. Use the [▶] and/or [◀] key to adjust. (Interval: 0~100)

Press the [▶] key, the whole screen is brighter.

Press the [◀] key, the whole screen is darker.

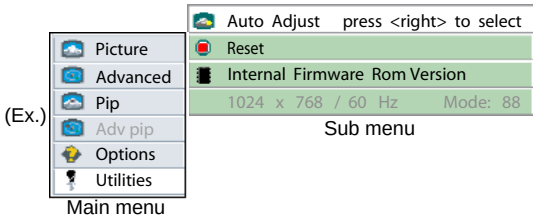
F. Utilities Menu

You can adjust the screen by Auto Adjust (Automatic Adjustment), reset the osd setting, and display the osd version if you select this menu.

1 Automatic Adjustment (Analog mode only)

1. Select [Utilities] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Auto Adjust] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Auto Adjust] turns blue.

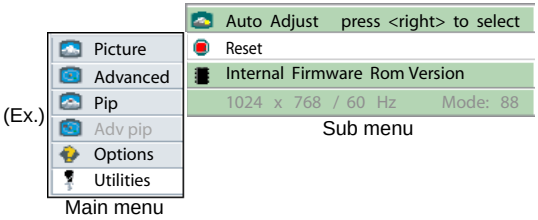
3. Press [▶] or [◀] key to start the Automatic Adjustment.

After the automatic adjustment successfully completed, the adjusted value is saved.

2 Delete the data saved at the current display mode

1. Select [Utilities] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Reset] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Reset] turns blue.

3. Press [▶] or [◀] key to reset the osd setting.

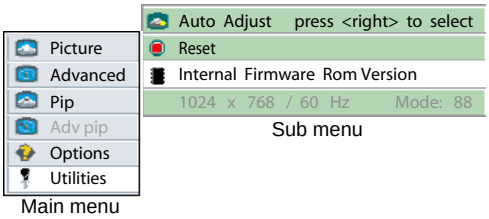
All data adjusted/saved are deleted and then the data programmed by manufacturer is reloaded.

Adjustment Procedure (Utilities Menu)

3 Display the osd version

Select [Utilities] on the Main menu, the osd version is always displayed in [Internal Firmware] on the Sub menu.

(Ex.)



Main menu

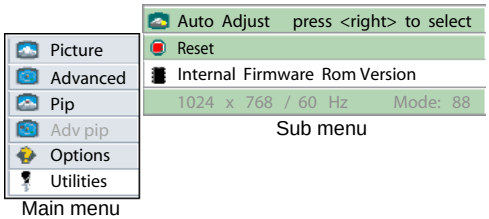
Sub menu

4 Display the resolution

Select [Utilities] on the Main menu. Display the current resolution below [Internal Firmware] on the Sub menu.

- Each time changing the resolution, its information is displayed.

(Ex.)



Main menu

Sub menu

Additional Functions

Power Management System

This is the function to reduce the monitor's power consumption, when a computer has not been used for long, even when the power to this LCD monitor is "ON". In order to activate this system, it must be connected and used with a computer that conforms to DPMS (Display Power Management Signaling) Standard of the VESA (Video Electronics Standards Association).

Plug and Play

This monitor conforms to DDC2B (Display Data Channel 2B) standard of VESA. (DDC stands for display data channel and is a registered trademark of VESA)

*This monitor does not correspond to DDC1, so that Plug and Play function will not be operated normally by some computers or graphic accelerators.

Always unplug the AC cable from the outlet before maintenance.
Also unplug the signal cables from the computer.

Cabinet

Soak a soft cloth in water or neutral detergent, wring well, and wipe the cabinet gently. Never use solvents such as paint thinner or benzene as they will damage the surface of the cabinet. Follow the manufacturer's directions when using chemically treated cloths.

Display Screen

Gently blow away any dust that has adhered to the display screen. Apply a small amount of water to a soft cloth, wring well and then wipe gently. Do not use organic solvents such as ethyl alcohol, thinner or benzine etc.
Do not rub with pointy objects such as a pen or screw-driver.

Fault Finding

Please check the following items before requesting repair. When this LCD monitor still does not work properly after checking in following way, stop using it, turn off the power switch, unplug the power plug from the AC Outlet, and contact the store where it was purchased. In case a COMPUTER is connected, please refer to the User's Manual for this LCD monitor also.

Problem	Check Item	Treatment	Page No.
No picture	Is a computer's signal timing (horizontal or Vertical synchronous signals) over the range specified for this monitor ?	Check a computer manual and set the signal timing so that it falls within the range for this monitor's specification.	41
Screen's display range is incorrect.	Is the computer's screen size set correctly ?	Reset the screen size.	–
Part of screen is missing.	Is the adjustment for screen correctly ?	Adjust the screen.	12
Picture is distorted.	Is the RGB or DVI cable connected securely ?	Check the RGB or DVI cable connection.	7
	Is the screen adjusted correctly ?	Adjust the screen correctly.	12
	The computer's signal timing may not match the monitor's specifications.	Check the computer's specifications.	–
Not change to another input signal.	Is the cable connected exactly?	Check the RGB or DVI cable connection.	7

Screen Display

- This monitor conforms to the WXGA mode (1,280 x 768 dots).
- This monitor does not support the computer's display mode which is larger than WXGA mode (1,280 x 768 dots). Its display is possible but there is no guarantee.
- Displaying the same screen for an extended period of time may leave a residual image; this does not indicate a broken or defective display. The display will return to normal after the power is turned off and the unit stands for a while. Use of a screen saver is recommended.
- Bright dots (dots that remain lit) or black dots (unlit dots) on the LCD monitor's display are normal; they do not indicate a broken or defective display.
- When a LCD monitor shows the Composite Video, S-Video and etc., it is displayed on a little bit wider screen which compares to a normal television set. Depend on the image, it might be possible to show it on a full screen.

Table of Preset Data

Fifteen signal timing patterns indicated in the tables below are preset when the monitor is shipped from the factory. The timing pattern is automatically determined and displayed according to the synchronous signals of the computer being used. The monitor will use the closest timing pattern for display when a perfectly matched one is not available.

No.	Resolution	Vertical Frequency	Horizontal Frequency
1	640 x 350 dots	70 Hz	31.4 kHz
2	640 x 400 dots	70 Hz	31.4 kHz
3	640 x 480 dots	60 Hz	31.5 kHz
4	640 x 480 dots	72 Hz	37.8 kHz
5	640 x 480 dots	75 Hz	37.5 kHz
6	800 x 600 dots	56 Hz	35.1 kHz
7	800 x 600 dots	60 Hz	37.9 kHz
8	800 x 600 dots	72 Hz	48.1 kHz
9	800 x 600 dots	75 Hz	46.9 kHz
10	832 x 624 dots	75 Hz	49.6 kHz
11	1,024 x 768 dots	60 Hz	48.4 kHz
12	1,024 x 768 dots	70 Hz	56.5 kHz
13	1,024 x 768 dots	75 Hz	60.2 kHz
14	1,280 x 768 dots	60 Hz	48.4 kHz
15	1,280 x 768 dots	75 Hz	60.2 kHz

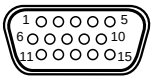
Note : The frequency of No.15 is applied to Analog mode only.

Cable Pin Arrangement

Analog Video Input : mini D-Sub (15pin)

No.	Signal name	No.	Signal name	No.	Signal name
1	R	**6**	R GND	**11**	No Connect
2	G	**7**	G GND	**12**	DDC data line*
3	B	**8**	B GND	**13**	Hor. Sync.
4	No Connect	**9**	No Connect	**14**	Vert. Sync.
5	DDC GND*	**10**	GND	**15**	DDC clock line*

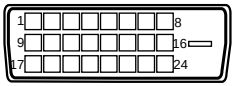
* DDC Standard (VESA)



Cable Pin Arrangement (female)

Digital Video Input : DVI-D (24pin)

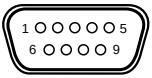
No.	Signal name	No.	Signal name	No.	Signal name
1	T.M.D.S. Data2-	**9**	T.M.D.S. Data1-	**17**	T.M.D.S. Data0-
2	T.M.D.S. Data2+	**10**	T.M.D.S. Data1+	**18**	T.M.D.S. Data0+
3	T.M.D.S. Data2/4 Shield	**11**	T.M.D.S. Data1/3 Shield	**19**	T.M.D.S. Data0/5 Shield
4	T.M.D.S. Data4-	**12**	T.M.D.S. Data3-	**20**	T.M.D.S. Data5-
5	T.M.D.S. Data4+	**13**	T.M.D.S. Data3+	**21**	T.M.D.S. Data5+
6	DDC Clock	**14**	+5V Power	**22**	T.M.D.S. Clock Shield
7	DDC Data	**15**	Ground (for +5V)	**23**	T.M.D.S. Clock+
8	No Connect	**16**	Hot Plug Detect	**24**	T.M.D.S. Clock-



Cable Pin Arrangement (female)

External Control Input : D-SUB (9pin)

No.	Signal name	No.	Signal name	No.	Signal name
1	No Connect	**4**	DTR	**7**	No Connect
2	RXD	**5**	GND	**8**	No Connect
3	TXD	**6**	DSR	**9**	No Connect



Cable Pin Arrangement (male)

Monitor Specifications

LCD

Liquid Crystal Panel	TFT
Display Size	39.6"
Pixel Configuration	1,280 x 768
Pixel Pitch	0.6735 x 0.6735 mm
Brightness	470 cd/m² typ.
Response Time	Black to White: 14 ms White to Black: 8 ms Gray to Gray: 8 ms
Contrast	600 : 1 typ.
Angle of Visibility	Up 85, Down 85, Right 85, Left 85 degrees (contrast ratio of less than 10)

PC Input

Vertical signal	56 - 75 Hz
Horizontal signal	31.4 - 60.2 kHz
Video Signal	Analog: RGB 75Ω 0.7Vp-p Digital: DVI Standard Version 1.0
No. of Colors	16.77 million
OSD Language	English, German, Japanese, French, Spanish
Plug & Play	VESA DDC2B
Power Management	VESA DPMS

Physical

Dimensions	938 (W) x 610 (H) x 89 (D) mm	
Weight	23 kg	
Operating Conditions	Temperature:	Operating: 5°C to 35°C Storage: -20°C to +60°C
	Humidity:	30% to 85% RH (no condensation)
Power Supply	Input: AC 220-240V 50Hz	
Power Consumption	215W (10W in Energy Saving mode)	

Note : To improve this LCD monitor's performance level, its specifications and appearance are subject to change without notice.

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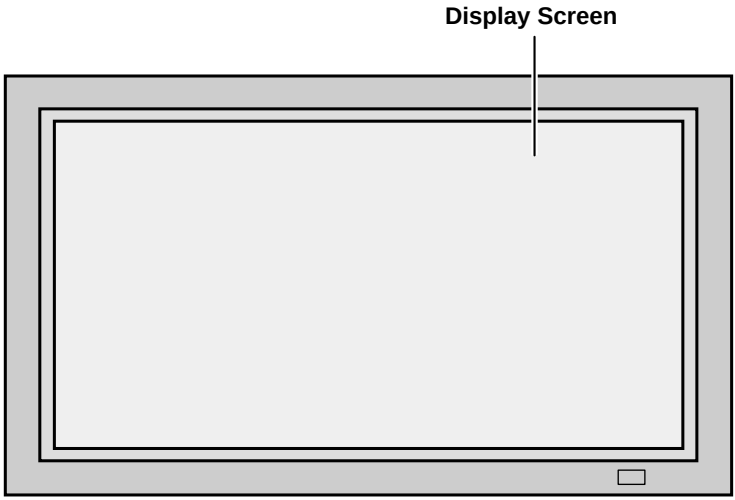
Names and Functions (Monitor)

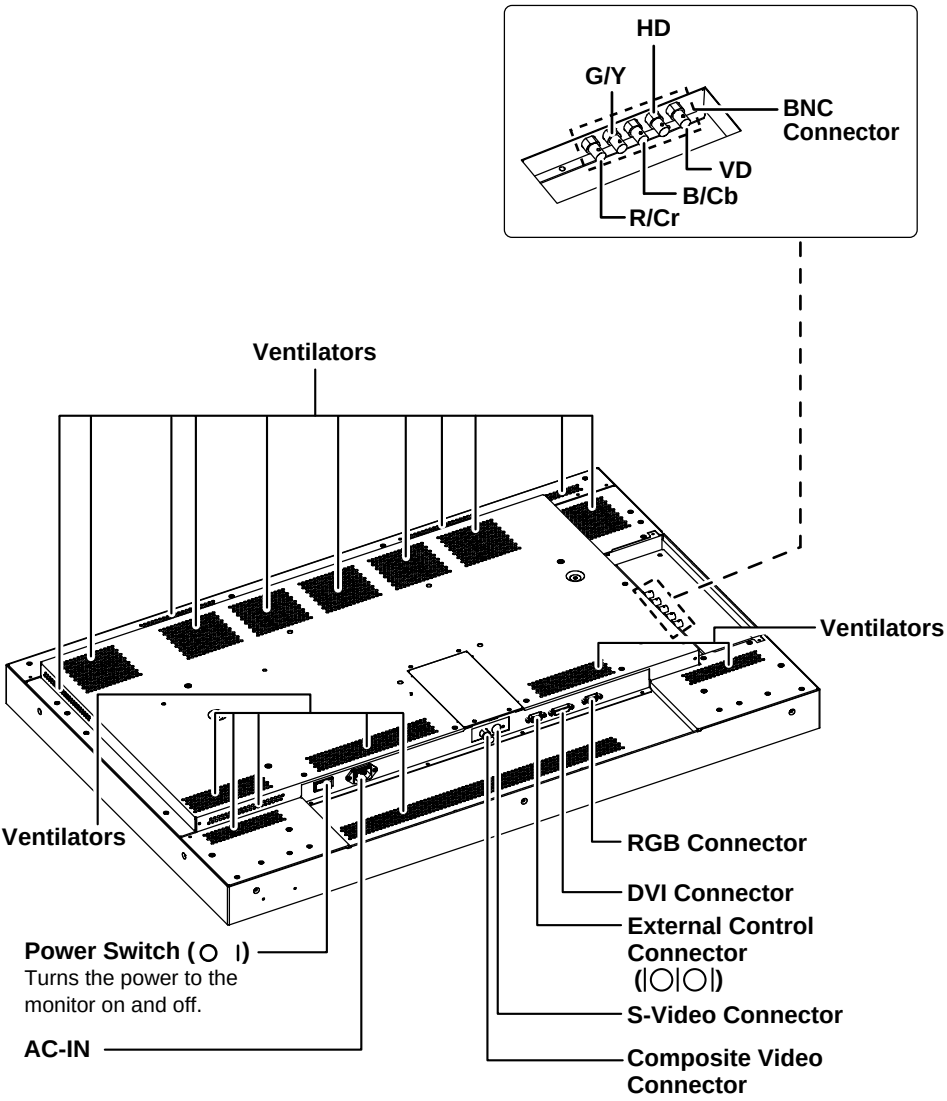
Front View



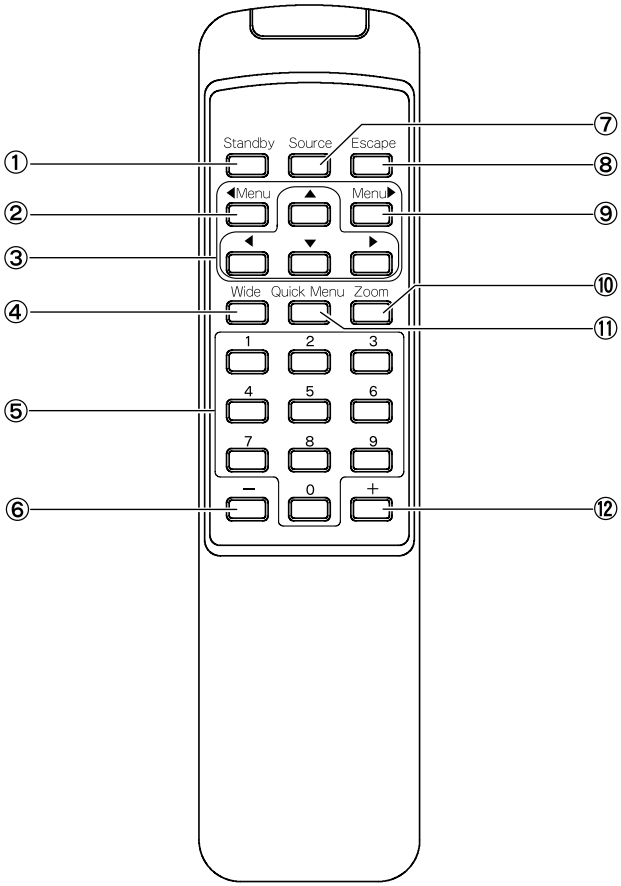
NOTE

- When you move the LCD monitor, please unplug AC cables connected to AC-IN and disconnect the cables connected to the external equipment.
- When you carry the LCD monitor, please be careful not to shock it. To avoid damaging the LCD panel, be sure not to touch the LCD panel when carrying the monitor.

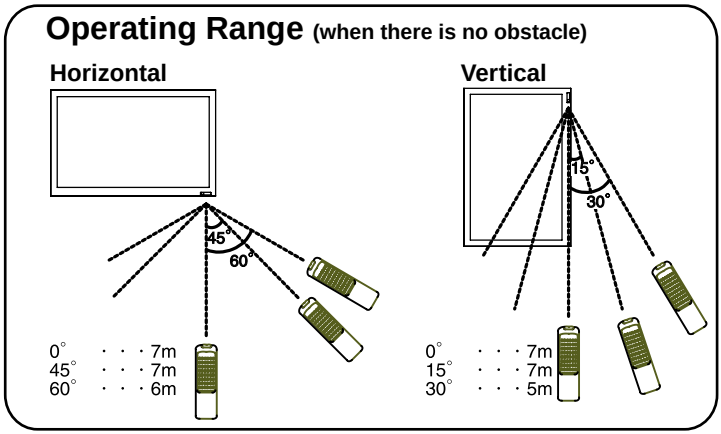
Rear View


HD
G/Y
BNC Connector
VD
B/Cb
R/Cr
Ventilators
Ventilators
Ventilators
RGB Connector
DVI Connector
External Control Connector
S-Video Connector
Composite Video Connector
Power Switch (O I)
Turns the power to the monitor on and off.
AC-IN

Names and Functions (Remote Controller)



Operating Range (when there is no obstacle)



①Standby key

Standby ON/OFF.

②◀Menu key

Show Main menu. Used to move cursor leftward while displaying the menu.

③Wide key

Set the scale mode in wide.

④Numeric keys (see page 72)

Used to switch each input signal. [0], [8] and [9] keys are not used.

[1] Analog RGB1 selection [2] Digital RGB selection [3] Composite VIDEO selection
[4] S-Video selection [5] Analog RGB2 selection [6] Component VIDEO selection
[7] RGB+CSync selection

⑤－key (see page 72)

Zoom out the picture.

⑥Source key

Search and switch to current input signal automatically.

⑦Escape key

Escape from menu.

⑧▶Menu key

Show Main menu. Used to move cursor rightward while displaying the menu.

⑨Direction keys

▲key･･･Select upper items in the menu.

▼key･･･Select lower items in the menu.

◀key･･･Change set level down or move the cursor leftward.

▶key･･･Change set level up or move the cursor rightward.

⑩Zoom key (see page 72)

Display Zoom menu.

⑪Quick Menu key (see page 70,71)

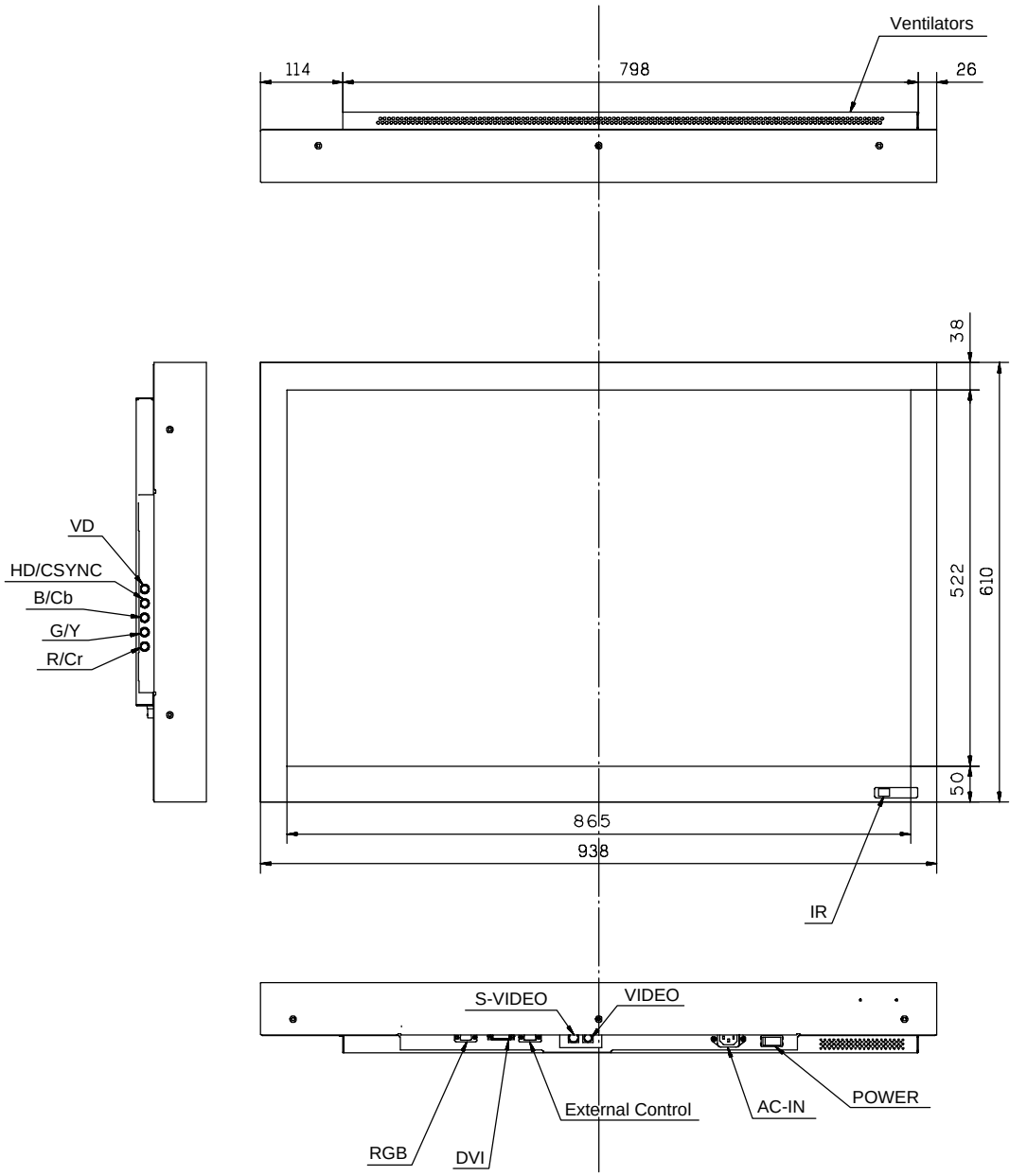
Display Quick menu.

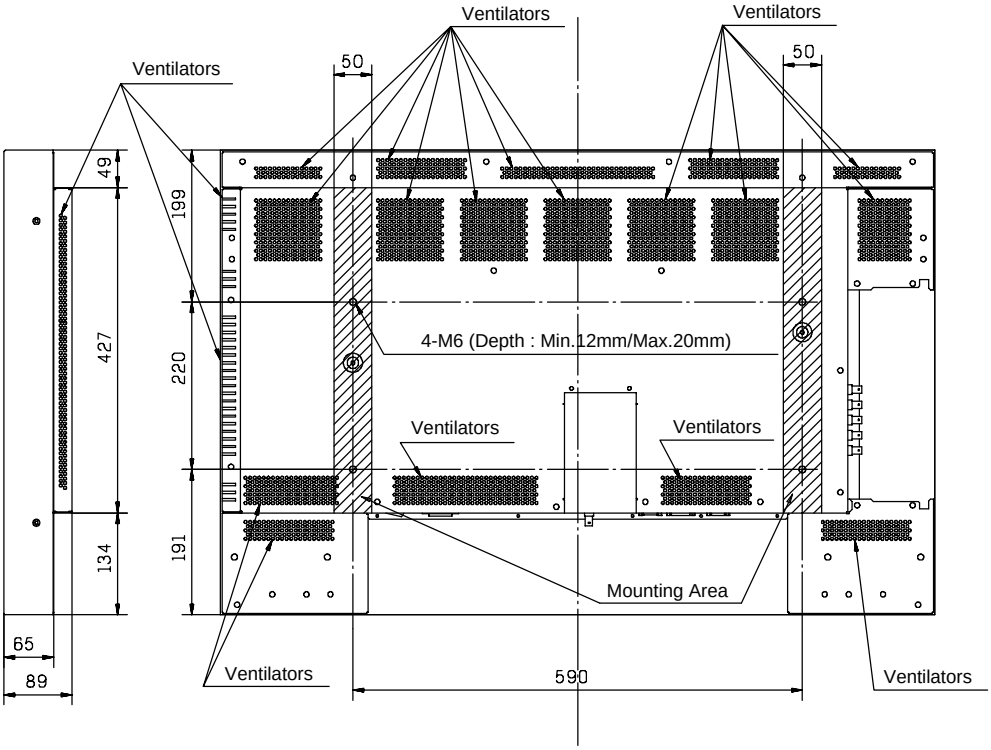
⑫＋key (see page 72)

Zoom in the picture.

*See page 11 about preparation for remote control.

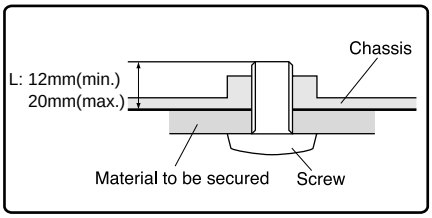
Outer Dimension





When you install the LCD Monitor, please take care the following:

- Use the M6 screws only for installation.
- The maximum length of the screw put through a hole is 20mm on the surface of a metal chassis (as shown right). Use the screw with effective length 12-20mm, if not it may damage to the LCD monitor.
- When you install the LCD monitor, please check the strength of material to be secured.



Installation

Connect the Video deck, DVD player etc.

Turn off the power for the monitor and AV equipment before the connection.

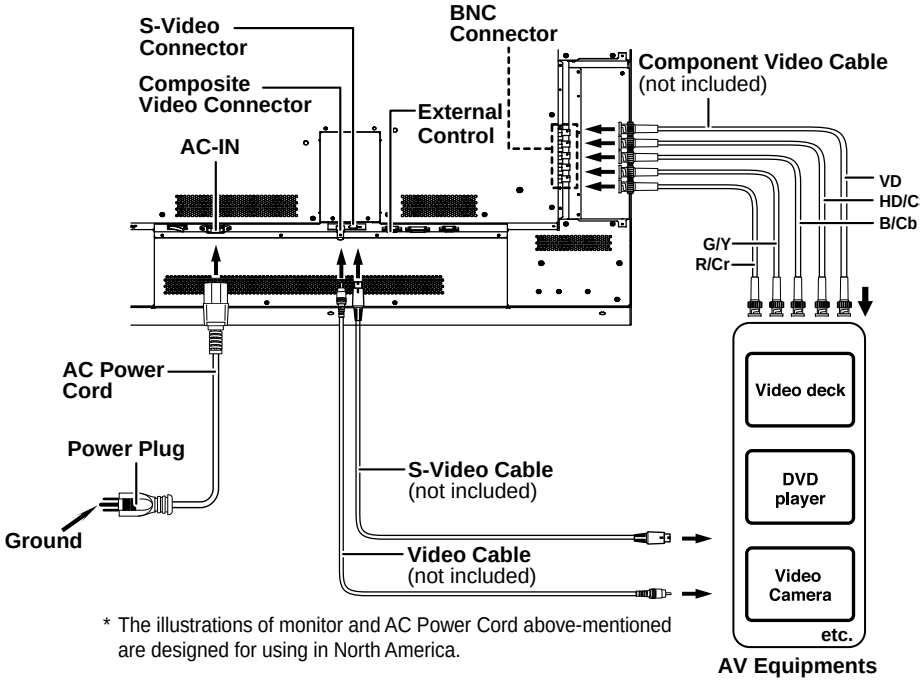
1 **Plug the cable(s) into the connector on the monitor securely.**

2 **Plug the other end of the cable(s) into the connector on AV equipment.**

3 **Plug the AC Power Cord into the AC-IN on the monitor.**

4 **Plug the Power Plug into an outlet.**

5 **Switch on the monitor before starting up AV equipment.**



* The illustrations of monitor and AC Power Cord above-mentioned are designed for using in North America.

NOTE

- For S-Video Cable, Video Cable and Component Video Cable, please use the cables on the market or ones come with AV equipments.
- **For clearer picture, using S-Video Cable is recommended compared with Composite Video. When an equipment has S-Video output, please use S-Video Cable.**

Connect the Computers

Before doing anything, make sure the Power Switch on the monitor and a computer is turned off.

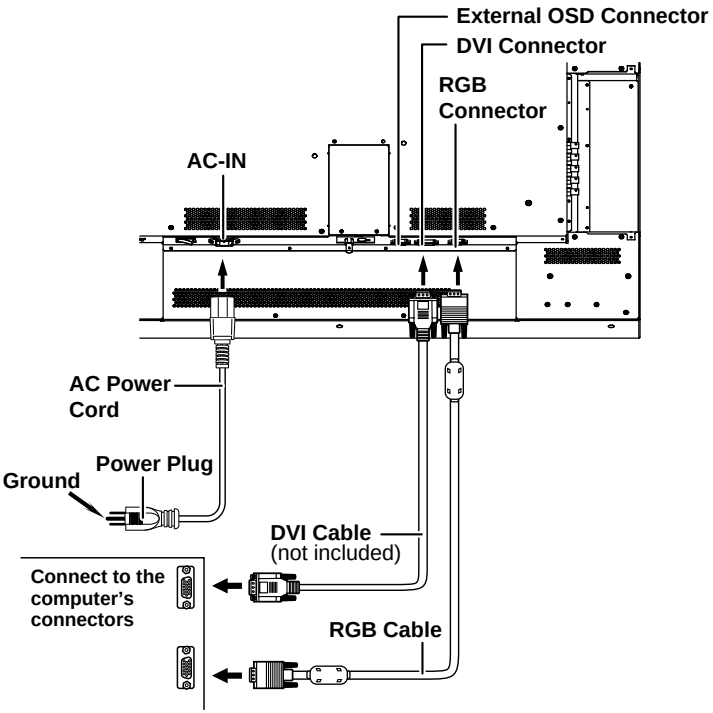
1 **Plug the cable(s) into the connector on the monitor securely and fix them in place with two screws (each).**

2 **Plug the other end of the cable(s) into the connector on a computer.**

3 **Plug the AC Power Cord into the AC-IN on the monitor.**

4 **Plug the Power Plug into an outlet.**

5 **Switch on the monitor before starting up a computer.**

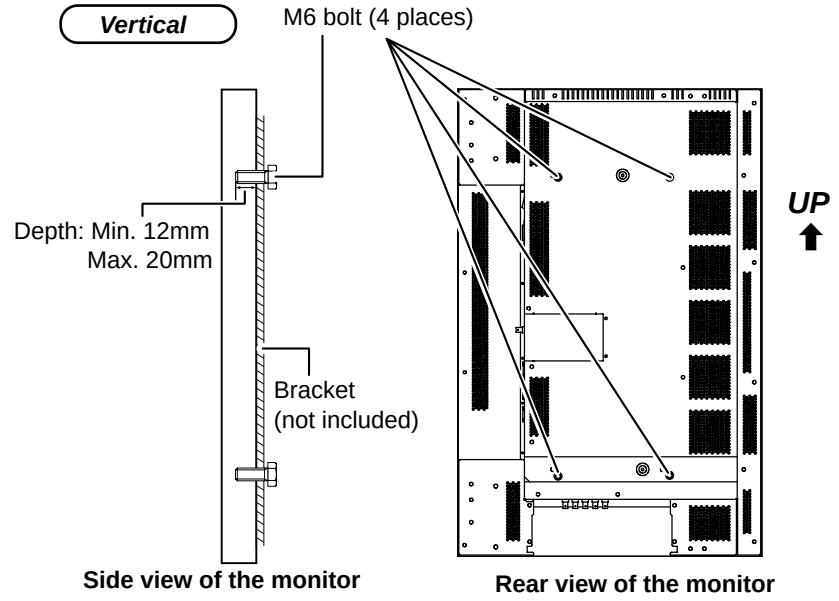


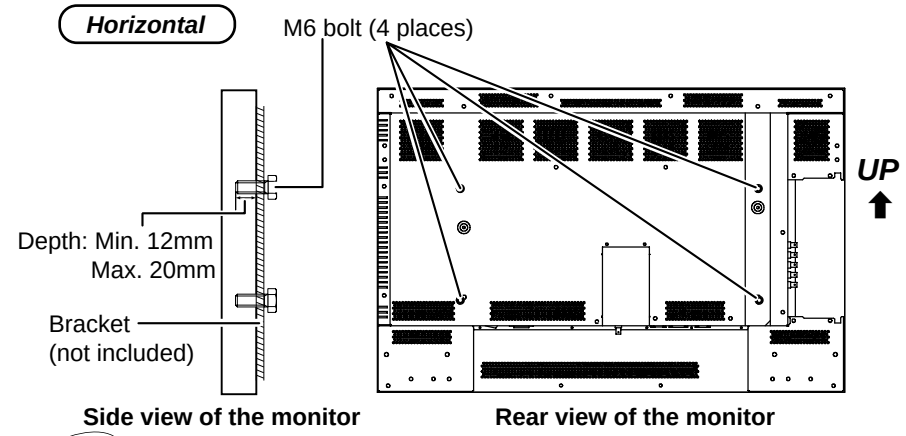
* The illustrations of monitor and AC Power Cord above-mentioned are designed for using in North America.

Installation

How to secure the monitor on a wall

Note: The following figure is only recommended.





Caution

Never cover the rear ventilators with cloth or something.
Secure enough space more than 30mm from the rear part of the monitor.

How to Use

Use this monitor with following procedure.

Watch Video/DVD

Connect video cable from Video deck or DVD player to the monitor.

↓

Choose "Composite Video" or "S-Video" or "Component Video" (see page 54).
*Search the input signal automatically.

↓

If adjustment not required or skip

Adjust the Screen (see page 53).

↓

Watch Video / DVD.

Use Computers

Connect video cable from computer to this monitor.

↓

Choose "Analog" or "Digital" (see page 54).

↓

If adjustment not required or skip

Adjust the Screen (see page 12).

↓

Use a computer.

NOTE

In case there is no signal when the screen is on, the screen will be in the waiting mode and nothing is shown.

Adjustment Items

Please follow the **OSD (On Screen Display)** menu to adjust screen settings using Remote Controller (see page 45).

Adjustment Items for Composite Video, S-Video and Component Video screen

Picture Menu (refer to page 58-62)

BRIGHTNESS	**Adjust the brightness for video screen**
CONTRAST	**Adjust the contrast for video screen**
H POSITION	**Adjust the horizontal position for video screen**
V POSITION	**Adjust the vertical position for video screen**
COLOR	**Adjust the color for video screen**
TINT	**Adjust the tint for video screen**
SHARPNESS	**Adjust the sharpness for video screen**
SCALING	**Scale the video screen**

Advanced Menu (refer to page 63-64)

COLOR	**Adjust the color temperature for video screen**
USER RED	**Adjust the level of red for video screen**
USER GREEN	**Adjust the level of green for video screen**
USER BLUE	**Adjust the level of blue for video screen**

Video Menu (refer to page 65)

VIDEO FORMAT	**Select the video format (ntsc/pal/secam)**

Options Menu (refer to page 66-68)

OSD	**Select the osd position**
ROTATION	**Select PORTRAIT or LANDSCAPE**
OSD TIMEOUT	**Change the osd timeout**
OSD BACKGROUND	**Select the osd background**
LANGUAGE	**Select language used in osd**
BACKLIGHT	**Adjust the backlight of the screen**

Utilities Menu (refer to page 69)

RESET	**Delete the data saved at the current display mode**
INTERNAL FIRMWARE	**Display the osd version**

Note

If selected [Rotated] in Options menu, [Internal Farmware] is not displayed.

Mode

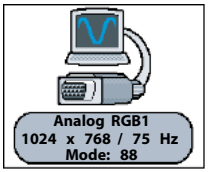
You can change or indicate the signal input type following the steps.

Change or indicate the input signal

1. While the OSD (On Screen Display) is not displayed, it is possible to change or indicate the current mode.

Press [Source] key to indicate the current mode in the lower right corner of the screen.

(Ex.)



2. While displaying the current mode, press [Source] key again.

Start searching another mode according to the order [Analog RGB1] → [Analog RGB2] → [Digital RGB] → [Composite Video] → [S-Video] → [Component Video] → [RGB + C Sync] in sequence.

[Analog RGB1]	→	Switch to the signal from RGB connector.
[Analog RGB2]	→	Switch to the signal from R/G/B/HD/VD connector.
[Digital RGB]	→	Switch to the signal from DVI connector.
[Composite Video]	→	Switch to the signal from Composite Video connector.
[S-Video]	→	Switch to the signal from S-Video connector.
[Component Video]	→	Switch to the signal from Cr/Y/Cb connector.
[RGB + C Sync]	→	Switch to the signal from R/G/B/C SYNC connector.

- Every time the input signal is searched, display the searched and stop searching picture.
- The current mode is indicated for each input signal type as follows:

NOTE

In case there is no signal when the screen is on, the screen will be in the waiting mode and nothing is shown.

Adjustment Procedure

Before Adjustment

The signal timing for a computer which this LCD monitor supports is listed in "Table of Preset Data" on Page 39, the recommended value of Vertical Frequency for this model is 60Hz. (Unlike CRT Monitors, the display becomes stable when Vertical Frequency is low.) It is recommend to set Vertical Frequency of a computer connected at 60Hz by "refresh rate setting" before starting adjustment procedure.

*This user's guide illustrates the OSD(On Screen Display) when installing this LCD monitor in the standard direction. If selects the "Rotated" in Options menu (see page 66), OSD menu is displayed in the opposite order.

This monitor does not have the convertible function of Landscape display. When using this monitor with vertical installation, it is necessary to adapt the input signal to this monitor to the Portrait display.

1 Display the Windows or other screen

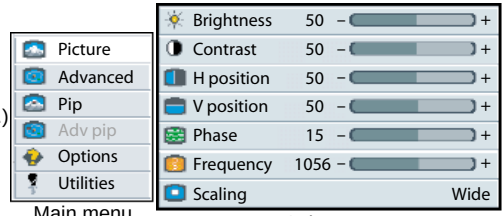
After a computer is connected with this LCD monitor, activate a computer and then shows a bright screen on this LCD monitor. It might not be possible to adjust the screen correctly for a dark screen.

For DOS mode, run an application that shows the edges of the screen (edit etc.) to adjust screen.

2 Show OSD (On Screen Display) menu

Press [◀Menu] or [Menu▶] key to show the following menu while no menu is displayed on the monitor.

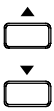
(Ex.)



Main menu Sub menu

3 Select item of the menu

Press [▲] or [▼] key to select item of the menu while displaying the OSD menu.



(Ex.)

Main menu Sub menu

4 Move the cursor to Sub menu

After Main menu item is selected, press [Menu ▶] key.

・Press [◀ Menu] key to return to Main menu from Sub menu.

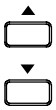
(Ex.)

Main menu

Sub menu

5 Select item of Sub menu

Press [▲] or [▼] key as well as the Main menu item selection.



(Ex.)

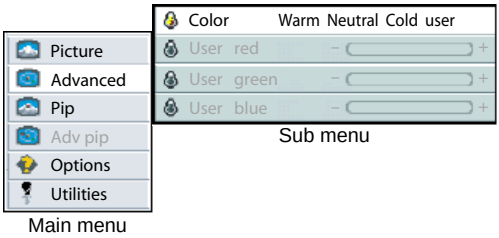
Main menu

Sub menu

6 Match the cursor to the operation item

1. When there are some selections like "color" item, press [◀] or [▶] key to move the cursor to switch.

(Ex.)



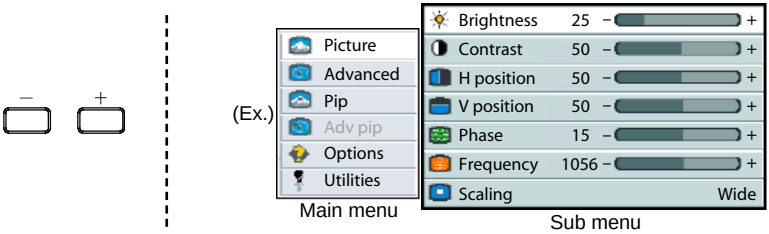
Main menu

Sub menu

*Continued on the following page.

Adjustment Procedure

2. For the adjustment item like "brightness", press [−] or [+] key to change levels of selected item.



7 Adjustment or Setting

For each item selected, the adjustment/setting has been made by pressing [◀] and/or [▶] key. This monitor saves adjusted value at intervals of about 5 seconds. Do not turn off the monitor for at least 5 seconds after adjustment or setting. (The detail steps for each item are described in the page 58-69)

NOTE

In case that Composite Video, S-Video and Component Video cables are connected, each adjustment procedure needs to be done for Composite Video, S-Video and Component Video, separately.

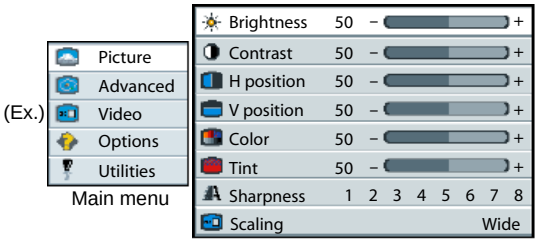
A. Picture Menu

The adjustment of brightness, contrast, horizontal position, vertical position, color, tint, sharpness and scaling for the picture are available.

1 Adjust the brightness

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Brightness] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Brightness] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

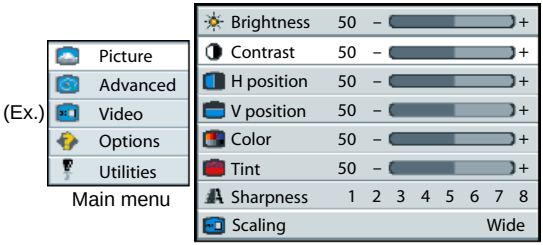
By pressing [▶] key, the whole screen is brighter .

By pressing [◀] key, the whole screen is darker.

2 Adjust the contrast

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Contrast] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Contrast] turns blue.

*Continued on the following page.

Adjustment Procedure (Picture Menu)

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the contrast (difference between bright and dark) becomes lighter.

By pressing [◀] key, the contrast (difference between bright and dark) becomes darker.

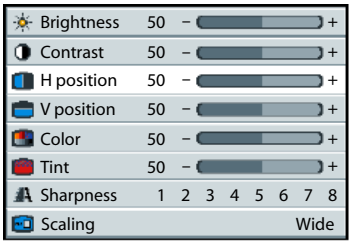
3 Adjust the horizontal position

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)

Main menu



Sub menu

2. Select [H position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [H position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

Press [▶] key to shift the screen to the right.

Press [◀] key to shift the screen to the left.

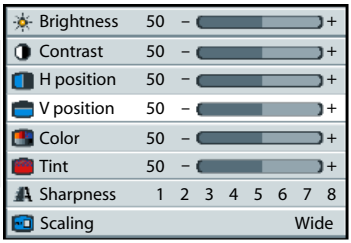
4 Adjust the vertical position

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)

Main menu



Sub menu

2. Select [V position] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [V position] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By press [▶] key to shift the screen to the top.

By press [◀] key to shift the screen to the bottom.

5 Adjust the color

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)

Main menu

Sub menu

2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the screen lightens.

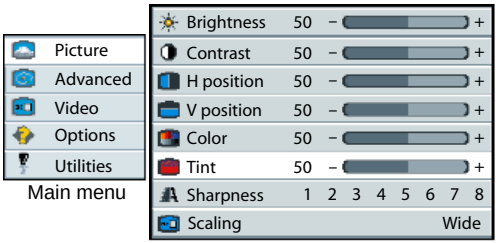
By pressing [◀] key, the screen deepens.

6 Adjust the tint (NTSC signal only)

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu

Sub menu

*Continued on the following page.

Adjustment Procedure (Picture Menu)

2. Select [Tint] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Tint] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

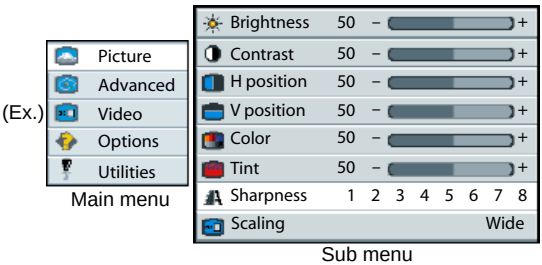
By pressing [▶] key, the skin color becomes more greenish.

By pressing [◀] key, the skin color becomes more purplish.

7 Adjust the sharpness

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Sharpness] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Sharpness] turns blue.

3. Use [▶] and/or [◀] key to adjust. (Interval: 1~8)

selected value	1 2 3 4 5 6 7 8
outline of the picture	clearly ⟵ ⟶ darkly

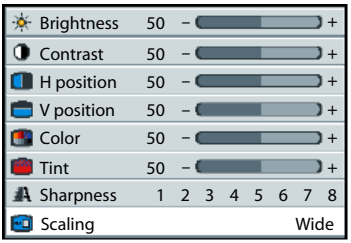
8 Adjust the scaling

1. Select [Picture] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)

Main menu



Sub menu

2. Select [Scaling] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Scaling] turns blue.

3. Use [▶] and/or [◀] key to adjust.

When pressing [▶] key, the scaling can be selected according to the order [Wide] → [Normal] → [LB to 16:9] → [Panorama] → [Gamemode] → [Auto] → [Wide] in sequence.

When pressing [◀] key, the scaling order is scrolled in opposite to the above order.

[Wide]	→	Display the input picture converted the wide.
[Normal]	→	Display the standard input picture of an aspect ratio of 4:3.
[LB to 16 : 9]	→	Display the input picture of LB with an aspect ratio of 4:3 on the whole screen. *LB stands for Letter Box.
[Panorama]	→	Display the input picture converted to the panorama size.
[Gamemode]	→	Display the input picture for TV game size.
[Auto]	→	Search the best mode for input picture from S-Video terminal and display the picture. *[Auto] works for only S-video mode.

Adjustment Procedure (Advanced Menu)

B. Advanced Menu

You can adjust the color temperature for the screen manually if you select this menu. Three preset values of color temperature are set up at the time of factory shipments. Besides, you can set your preferable values.

1 Adjust the color temperature (Preset)

1. Select [Advanced] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Use [▶] and/or [◀] key to adjust.

<Preset value>		<Screen condition>
Warm	→	a little reddish white
Neutral	→	natural light
Cold	→	a little bluish white

When pressing the [▶] button, the color temperature can be selected according to the order [Warm] → [Neutral] → [Cold] → [user] → [Warm] in sequence.
When pressing the [◀] button, the color temperature order is scrolled in opposite to the above order.

- If [user] is selected, it is available to adjust three colors by [User red], [User green] and [User blue]. (see following step **2**)

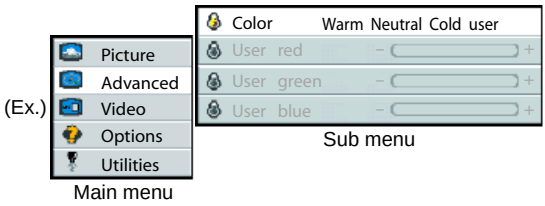
2 Adjust the color temperature (User)

If you wish to set user settings of color temperature, follow the steps.

(Ex.) In case adjusting the [User red], [User green] and [User blue] in sequence.

1. Select [Advanced] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Color] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Color] turns blue.

3. Select [user] with [▶] and/or [◀] key.

[user] turns red. Besides, [User red], [User green] and [User blue] are ready to adjust.

4. Select [User red] with [▼] key.

The selected item of [User red] turns blue.

5. Adjust the red level with [▶] and/or [◀] key. (Interval: 0~100) Press [▼] key.

You can see the cursor moving to [User green]. The selected item of [User green] turns blue.

6. Adjust the green level with [▶] and/or [◀] key. (Interval: 0~100) Press [▼] key.

You can see the cursor moving to [User blue].

The selected item of [User blue] turns blue.

7. Adjust the blue level with [▶] and/or [◀] key. (Interval: 0~100)

	pressing [▶] key	pressing [◀] key
User red	more reddish	less reddish
User green	more greenish	less greenish
User blue	more bluish	less bluish

Adjustment Procedure (Video Menu)

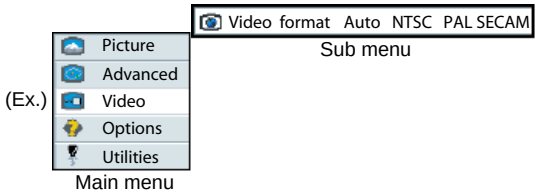
C. Video Menu

When video signal is input, you can select the video format (NTSC/PAL/SECAM) manually.

1 Select the video format

1. Select [Video] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.
The selected item of [Video format] turns blue.



2. Use [▶] and/or [◀] key to select the video format.

When pressing [▶] key, the video format can be selected according to the order [Auto] → [NTSC] → [PAL] → [SECAM] → [Auto] in sequence.
When pressing [◀] key, the video format order is scrolled in opposite to the above order.

[Auto]	→	Search and switch to the input signal automatically.
[NTSC]	→	Switch to the NTSC signal.
[PAL]	→	Switch to the PAL signal.
[SECAM]	→	Switch to the SECAM signal.

D. Options Menu

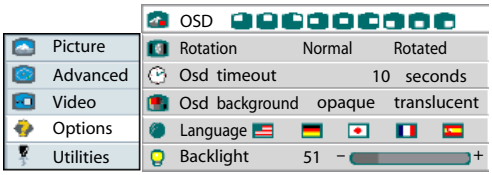
You can change the osd position, osd timeout, osd background and backlight and select portrait or landscape, language used in osd and see the resolution at the time if you select this menu.

1 Select the osd position

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Osd] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd] turns blue.

3. Use [▶] and/or [◀] key to select the position.

When pressing [▶] key, the position of pip(picture in picture) can be selected according to the order → → → → → → → → in sequence.

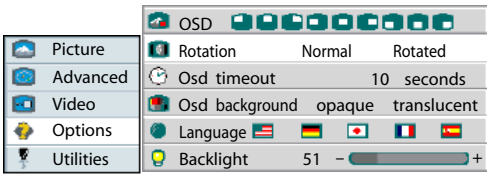
When pressing [◀] key, the position of pip order is scrolled in opposite to the above order.

2 Select PORTRAIT or LANDSCAPE

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Rotation] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Rotation] turns blue.

*Continued on the following page.

Adjustment Procedure (Options Menu)

3. Use the [▶] and/or [◀] key to select [Normal] or [Rotated].

Select "Normal" to display LANDSCAPE.

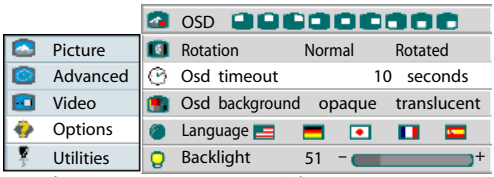
Select "Rotated" to display PORTRAIT.

3 Change the osd timeout

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Osd timeout] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd timeout] turns blue.

3. Use the [▶] and/or [◀] key to adjust. (Interval: 5~60)

Press the [▶] button to set the osd timeout longer.

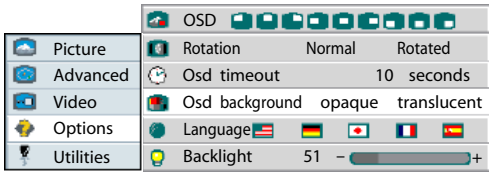
Press the [◀] button to set the osd timeout shorter.

4 Change the osd background

1. Select [Options] on the Main menu and press [Menu ▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Osd background] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Osd background] turns blue.

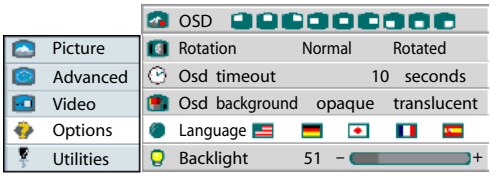
3. Use the [▶] and/or [◀] key to select [opaque] or [translucent].

5 Select language used in OSD (On Screen Display)

1. Select [Options] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Language] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Language] turns blue.

3. Use the [▶] and/or [◀] key to select the language.

When pressing the [▶] key, the language can be selected according to the order [English] → [German] → [Japanese] → [French] → [Spanish] → [English] in sequence.

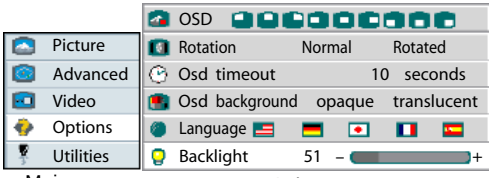
When pressing the [◀] key, the language is scrolled in opposite to the above order.

6 Adjust the backlight

1. Select [Options] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.

(Ex.)



Main menu Sub menu

2. Select [Backlight] on the Sub menu with pressing [▲] or [▼] key.

The selected item of [Backlight] turns blue.

3. Use the [▶] and/or [◀] key to adjust. (Interval: 0~100)

Press the [▶] key, the whole screen is brighter.

Press the [◀] key, the whole screen is darker.

Adjustment Procedure (Utilities Menu)

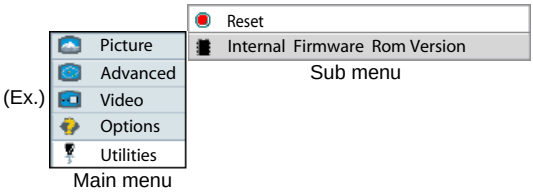
E. Utilities Menu

You can reset the osd setting and display the osd version if you select this menu.

1 Delete the data saved at the current display mode

1. Select [Utilities] on the Main menu and press [Menu▶] key.

You can see the cursor moving to the Sub menu.



2. Select [Reset] on the Sub menu with pressing [▲] or [▼] key.

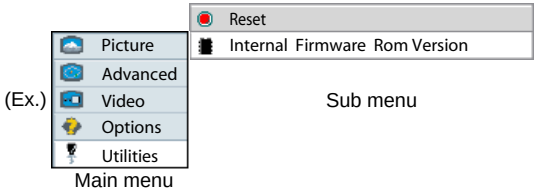
The selected item of [Reset] turns blue.

3. Press [▶] or [◀] key to reset the osd setting.

All data adjusted/saved are deleted and then the default settings programmed by manufacturer is reloaded.

2 Display the osd version

Select [Utilities] on the Main menu, the osd version is always displayed in [Internal Firmware] on the Sub menu.



Shortcut Menu

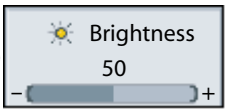
You can shortcut to adjust the brightness and contrast of the whole screen and size of picture in picture. When the OSD (On Screen Display) is not displayed, it is possible to display the Shortcut Menu. The adjustment flow is described in below:

1 Display the Shortcut Menu

1. While the OSD (On Screen Display) is not displayed, it is possible to display the Shortcut Menu. Press [Quick Menu] key.

The shortcut menu is displayed.

(Ex.)



2. Use [Quick Menu] key to select the shortcut menu.

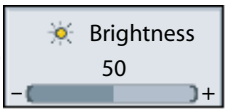
When pressing [Quick Menu] key, the shortcut menu can be selected according to the order [Brightness] → [Contrast] → [Pip enable] → [Brightness] in sequence.

• Every time [Quick Menu] key is pressed, the shortcut menu changes.

2 Adjust the brightness

1. Use [Quick Menu] key to select [Brightness] menu.

(Ex.)



2. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

By pressing [▶] key, the whole screen is brighter.

By pressing [◀] key, the whole screen is darker.

3 Adjust the contrast

1. Use [Quick Menu] key to select [Contrast] menu.

(Ex.)

*Continued on the following page.

Additional Functions

2. Use [▶] and/or [◀] key to adjust. (Interval: 0~100)

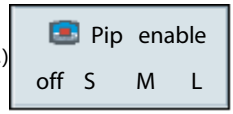
By pressing [▶] key, the contrast (difference between bright and dark) becomes darker.

By pressing [◀] key, the contrast (difference between bright and dark) becomes lighter.

4 Select the size of pip (picture in picture)

1. Use [Quick Menu] key to select [Pip enable] menu.

(Ex.)



2. Use [▶] and/or [◀] key to select the size of pip.

The selected size turns red.

When pressing [▶] key, the pip can be displayed at the size according to the order [off] → [S] → [M] → [L] → [off] in sequence.

When pressing [◀] key, the size of pip is scrolled in opposite to the above order.

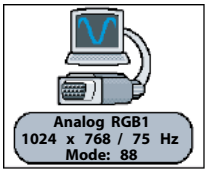
- When [off] is selected, [pip] menu and pip disappear. In case selecting [small] or [medium] or [large], [pip] menu appears.
- When [off] is selected, [pip] menu and pip disappear. In case selecting [small] or [medium] or [large], [pip] menu appears.

5 Switch source (input signal)

1. To show signal source, press [Source] key.

Current input signal type and the resolution are displayed.

(Ex.)



2. To search other input signal connected to the monitor, press [Source] key of remote control again while the input signal type is displayed.

- The searching order of other input signal is as follows.
  [Analog RGB1] → [Analog RGB2] → [Digital RGB] → [Composite Video] → [S-Video] → [Component Video] → [RGB+C Sync]
- Every time the input signal is searched, display the searched and stop searching picture.
- **"No input signal. Going to Sleep."** is displayed when there is no other input signal detected.

6 Numeric keys

As shown in page 45,46, each numeric keys is designated to one input signal (see list below). Once any numeric key is pressed, signal detection starts. If no correspondent signal is detected, next detection starts for other signal type.

Key	Source
1	Analog RGB1
2	Digital RGB
3	Composite Video
4	S-Video
5	Analog RGB2
6	Component Video
7	RGB+C Sync

7 Zoom menu

1. To show zoom menu, press [Zoom] key.

The zoom menu icon is displayed as follows.

2. To zoom in, press [+] key.

3. To zoom out, press [−] key.

Press [Escape] key to leave the Zoom menu.

Additional Functions

Power Management System

This is the function to reduce the monitor's power consumption, when a computer has not been used for long, even when the power to this LCD monitor is "ON". In order to activate this system, it must be connected and used with a computer that conforms to DPMS (Display Power Management Signaling) Standard of the VESA (Video Electronics Standards Association).

Plug and Play

This monitor conforms to DDC2B (Display Data Channel 2B) standard of VESA. (DDC stands for display data channel and is a registered trademark of VESA)

*This monitor does not correspond to DDC1, so that Plug and Play function will not be operated normally by some computers or graphic accelerators.

Fault Finding

Fault Finding

Please check the following items before requesting repair. When this LCD monitor still does not work properly after checking in following way, stop using it, turn off the power switch, unplug the power plug from the AC Outlet, and contact the store where it was purchased. In case a COMPUTER is connected, please refer to the User's Manual for this LCD monitor also.

Video Screen is displayed:

Problem	Check Item	Treatment	Page No.
No picture	Does the Power Switch on an equipment connected turn ON?	Check the power status on an equipment connected.	–
	Is a signal cable connected firmly?	Check the cable connection.	49
Brightness, contrast and etc. are no good	Is the brightness or contrast and etc. on the screen adjusted correctly?	Adjust the screen again.	53

Screen Display

- This monitor conforms to the WXGA mode (1,280 x 768 dots).
- This monitor does not support the computer's display mode which is larger than WXGA mode (1,280 x 768 dots). Its display is possible but there is no guarantee.
- Displaying the same screen for an extended period of time may leave a residual image; this does not indicate a broken or defective display. The display will return to normal after the power is turned off and the unit stands for a while. Use of a screen saver is recommended.
- Bright dots (dots that remain lit) or black dots (unlit dots) on the LCD monitor's display are normal; they do not indicate a broken or defective display.
- When a LCD monitor shows the Composite Video, S-Video and etc., it is displayed on a little bit wider screen which compares to a normal television set. Depend on the image, it might be possible to show it on a full screen.

Monitor Specifications

LCD

Liquid Crystal Panel	TFT
Display Size	39.6"
Pixel Configuration	1,280 x 768
Pixel Pitch	0.6735 x 0.6735 mm
Brightness	470 cd/m² typ.
Response Time	Black to White: 14 ms White to Black: 8 ms Gray to Gray: 8 ms
Contrast	600 : 1 typ.
Angle of Visibility	Up 85, Down 85, Right 85, Left 85 degrees (contrast ratio of less than 10)

PC Input

Vertical signal	56 - 75 Hz
Horizontal signal	31.4 - 60.2 kHz
Video Signal	Analog: RGB 75Ω 0.7Vp-p Digital: DVI Standard Version 1.0
No. of Colors	16.77 million
OSD Language	English, German, Japanese, French, Spanish
Plug & Play	VESA DDC2B
Power Management	VESA DPMS

Video Input

Composite Video	Signal	75 Ω, 1Vp-p (NTSC, PAL, SECAM)
	Connector	BNC x 1
S-Video	Signal	Luminance : 75 Ω 1Vp-p
		Chrominance : 75 Ω 0.286Vp-p (NTSC, PAL SECAM)
	Connector	Mini DIN 4pin X1
Component Video	Signal	Y/Cb/Cr, Analog RGB+C SYNC, Analog RGB+HD/VD
	Connector	BNC x 5

Physical

Dimensions	938 (W) x 610 (H) x 89 (D) mm	
Weight	23 kg	
Operating Conditions	Temperature:	Operating: 5°C to 35°C Storage: -20°C to +60°C
	Humidity:	30% to 85% RH (no condensation)
Power Supply	Input: AC 100-240V 50/60Hz(U.S.) AC 220-240V 50Hz(Europe)	
Power Consumption	215W (10W in Energy Saving mode)	

Note : To improve this LCD monitor's performance level, its specifications and appearance are subject to change without notice.

Federal Communications Commission (FCC) Statement

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna
- increase the separation between the equipment and receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help

Accessories: This equipment has been tested and found comply with the limits of a Class A digital device. The accessories associated with this equipment are as follows:

- shielded video cable

These accessories are required to be used in order to ensure compliance with FCC rules.

Memo

Memo

Project. Present. Perform.

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